Since 1965

terramite®

CONSTRUCTION EQUIPMENT

T7

Compact Tractor Loader Backhoe

IMPORTANT!

READ THIS MANUAL BEFORE OPERATING MACHINE.

PARTS MANUAL



Since 1965

terramite®

CONSTRUCTION EQUIPMENT

"Backed by a World of Experience"

600 Goff Mountain Road t P.O. Box 7146, Charleston, WV 25356-7146 U.S.A.

1-800-428-3772 t Fax 1-800-776-4845

International 1-304-776-4231 t Fax 1-304-776-4845

www.terramite.com

Table of Contents

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terramite®

CONSTRUCTION EQUIPMENT

SECTION ONE:

INTRODUCTION

INFORMATION

History of Terramite Backhoes

In 1963, K. G. Cunningham, the founder of Terramite, designed and built a full-functioning backhoe as an attachment for a Gravely tractor. Although it was an instant success with cemeteries and contractors who were looking for a small machine, it soon became apparent that there was a greater need for a compact backhoe that was about a third the size of the larger machines that were available at the time. Following several years of R&D, the Model 1 was introduced in 1965. Realizing the need for a more versatile machine, the Model 2 followed, which added a loader and an all-gear drive.

The need for better control while endloading prompted the hydrastatic drive Terramite 3 in 1972. This was followed by the 3-15 in 1974, the Model 4 in 1976 and the Model 5 in 1980. The T5B was introduced in 1986, the T5C, premiered in 1990, and the latest compact loader/backhoe, the T6 made its debut in early 1997 and the T5D was developed in 1999. Each model represented major as well as minor improvements in the original machine.

Our never ending policy of improvements and enhancements of our original design, accessories and services is the reason Terramite is number one in the compact tractor loader backhoe manufacturing business today.

Know Your Warranty

We have included the following breakdown of the coverage of your warranty to assist you in quickly determining just what is covered and what is not.

Where Do I Obtain Warranty Service?

For the authorized Terramite Service facility nearest you, call Warranty Service Manager, Terramite 1-800-428-3772.

Who is Covered and For How Long?

Only the original consumer/purchaser of a new T7 for a period of one (1) year from the date of purchase.

What is Covered Under Warranty?

Warranty is limited to replacement and repair of defective parts only that failed under normal use. Warranty does not include the replacement of the machine.

Does this Include Cost of Replacement and Repair?

The first step to obtaining service work is to call the Terramite Warranty Service Manager, 1-800-428-3772, and obtain an authorization number. Upon our inspection of the replaced part, if it is determined that the item was truly defective and was not damaged or abused by failure to perform reasonable and necessary maintenance, Terramite will authorize payment of a reasonable amount for the replacement and/or repair of said item.

Where Do I Obtain the Replacement Item?

First, contact your dealer as he may have the needed part in stock. If not, contact our Terramite Warranty Service Manager, 1-800-428-3772. As the manufacturer, we buy these items at a lower price than most dealers. Therefore, we reserve the right to supply all items replaced when under warranty. However, some items are covered under separate warranties from the original manufacturer, such as pumps, motors, tires, etc., which are often honored at their local dealers. Many of these manufacturers include warranty information that can be found in your T7 Service Manual.

Does Warranty Cover Any Other Costs?

Terramite will not be responsible for indirect or consequential damages of any kind, such as lost income, penalties for not completing work on schedule, etc., due to the failure of the warranted machine. Terramite will not cover any added charges, such as renting another machine or the cost of transporting the machine to and from being repaired, etc.

Can This Warranty be Changed by the Dealer?

Terramite will not back up any warranty claim other than what is stated on the official Limited New Product Warranty that accompanies the T7 at time of purchase. This summary of the warranty does not constitute a warranty itself, only answers those questions most often asked. Read your official warranty for full details of its coverage and exclusions.

SEE SAMPLE WARRANTY ON NEXT PAGE.

SAMPLE Limited New Product Warranty

WE WARRANTY TO THE ORIGINAL CONSUMER/PURCHASER THAT EACH NEW PRODUCT SOLD BY US WILL BE FREE FROM MANUFACTURING DEFECTS IN NORMAL SERVICE USE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PURCHASE.

Our obligation under this warranty is expressly limited, solely at our option, to the replacement or repair at the premises of Terramite Corporation, 600 Goff Mountain Road, Charleston, West Virginia 25356, or at a service facility designated by us, of such part or parts as inspection shall disclose to have been defective. This warranty does not apply to defects caused by casualty or unreasonable use (including faulty repairs by others and failure to provide reasonable and necessary maintenance) nor to ordinary wear and tear, while in the possession of the consumer/purchaser.

This warranty is for replacement or repair of defective parts only, and does not provide for replacement of complete products due to a defective part or parts nor does it cover any charges of whatever nature in connection with the replacement of any such defective parts.

We shall not be responsible for special, indirect, incidental or consequential damages of any kind including, but not limited to, labor costs or transportation charges in connection with the replacement or repair of defective parts.

Components such as engines, pumps and batteries which are supplied by other manufacturers, are warranted by the manufacturer's nearest "Factory Service Center" for repair or replacement of those items. However, when necessary, the manufacturer will act as your agent to secure adjustment.

To obtain warranty service, purchaser must bring the product to an authorized Terramite Service facility. For the facility nearest you, contact Terramite Corporation, P.O. Box 7146, Charleston, WV 25356 or telephone (304) 776-4231.

This warranty gives you specific rights and you may have other rights which vary from state to state. This warranty is in lieu of any other warranty, whether written, verbal, expressed or implied and may not be modified or changed by Terramite Distributors or Dealers. This warranty shall be null and void unless the section below has been filled in and the manufacturer's copy of this document is returned to Terramite Corporation, P.O. Box 7146, Charleston, WV 25356 within ten (10) days of the date of purchase by the original owner.

MODEL# ____________________ SERIAL# ____________________ ENGINE# ____________________

PURCHASED FROM ____________________ CERTIFICATE OF ORIGIN# ____________________

NAME OF PURCHASER ____

ADDRESS ____

PHONE (__________) ____________________ CERTIFICATE OF ORIGIN# ____________________

TYPE OF BUSINESS ____

IS THIS YOUR FIRST TERRAMITE? ________ WHAT KIND OF SIMILAR EQUIPMENT DO YOU OWN? ____________

____

____

OPTIONS ____

____

DATE OF PURCHASE ____________________ SIGNATURE ____________________
(ORIGINAL PURCHSER)

Fill in the information requested above.
This will be useful anytime you need to order parts.

This is only a SAMPLE of the Limited New Product Warranty provided with each new machine to the original owner.

Before You Start

READ OPERATOR'S HANDBOOK

Carefully read all WARNING! and DANGER! messages in handbook and be sure you understand their meanings.

IMPORTANT! If this machine is used by the owner, an employee, or is loaned or rented, make sure that the following instructions are complied with:

1. **The operator has read the Operation and the Safety Rules sections of the Operator's Handbook.**
2. **He has been given instructions on the safe and correct use of the machine.**
3. **He has practiced operating the machine and the use of all controls in a safe, clear area before he operates the machine on a job site.**
4. **He has read all safety decals on the machine.**
5. **He has been informed to clear the area of other persons and hidden hazards before starting the machine.**

SAFETY TIPS - SAFETY TIPS - SAFETY TIPS - SAFETY TIPS

Safety is a prime consideration in the design of this machine. Guards, shields and other safety features are built in wherever possible. However, accident reports show carelessness causes the majority of accidents. You can avoid most accidents by observing the safety rules on these pages. Study these rules carefully and enforce them on the job:

Never allow minors to operate or be in the vicinity of the machine while working.

Do not allow the T7 to be operated by anyone who is intoxicated or on medication that would affect their judgement or ability to operate the machine.

The machine is designed to be operated by adults who are of average size and weight. Persons who are extremely heavy, big or tall, or those who are exceedingly short, light or weak should not run the machine.

Before Operating the Terramite T7

Read the Operator's Handbook. Never allow anyone to operate the backhoe without reading the Operator's Manual and Safety Instructions. This should be followed by supervised training, if possible.

Check Your Equipment. Always make a complete inspection of the machine before operating it that day. Check the hydraulic system and the engine oil level. Then check the machine for broken, missing or defective parts. Check the tires for cuts, bulges, irregularities and abnormal wear and proper inflation. Check the neutral position of the foot pedal. A malfunctioning machine invites accidents.

Keep Your Machine Clean. Slippery surfaces are hazardous. Remove oil, grease or mud from the operating area of the tractor. Failure to keep these areas clean could cause a serious accident.

Wear Whatever is Needed for Protection. Protect yourself by wearing all the protective clothing and personal safety devices issued to you or required by job conditions. You may need a hard hat, safety shoes, safety glases, heavy gloves, hearing protection, reflective clothing, wet weather gear and a respirator. Never take chances by wearing loose clothing, watches or rings.

Look For Hazards. Walk around a new work area and check for any hidden hazards, such as holes and hidden abutments.

Read and Heed Safety Decals. Make sure the safety and information decals can be easily read. To clean decals, use soap and water only. Gasoline or solvents will destroy the decals. If these decals are missing or illegible, call our Parts/Service Department for replacements.

Roll-Over Protective Structure. All Terramite T7 tractor loader backhoes are equipped with a Roll-Over Protective Structure. This is designed to protect the operator in the event of a roll-over. If this machine has been rolled over, the R.O.P.S. must be replaced. It is designed to be used only once.

Driving Pivot Pins. When driving pivot pins in or out, use care to guard against injury from particles that may chip off the pin ro object used in striking the pin. These pins can fly out at high speed if they are not tapped lightly just before they come out. Make sure there isn't anyone or anything in the way, in case the pin flies out. Safety glasses should be worn.

Hand Signals

Purpose and Scope

The purpose of the hand signals is to provide an easy means of communications in the interest of safety. These hand signals are in general agreement with U.S. Army Field Manual, FM21-60, Section II, Standard Arm and Hand Signals. The standard provides for hand signals to be used in agricultural operations especially when noise or distance precludes the use of normal voice communications.

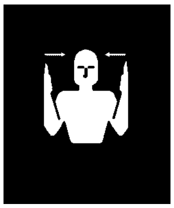


Fig. 1 - THIS FAR TO GO. Place palms at ear level facing head, move laterally inward to indicate remaining distance to go.



Fig. 2 - COME TO ME. Raise the arm vertically overhead, palm to the front, and rotate in large horizontal circles.

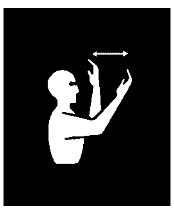


Fig. 3 - MOVE TOWARD ME. Beckon by holding the arm horizontally to the front, palm up, and motioning toward the body.

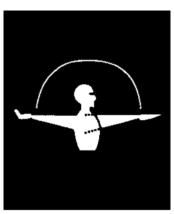


Fig. 4 - MOVE OUT - TAKE OFF. Face the desired direction of movement; hold the arm extended to the rear; then swing it overhead and forward in the direction of desired movement until it is horizontal, palm down.

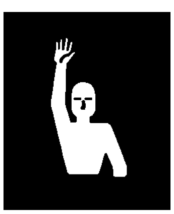


Fig. 5 - STOP. Raise hand upward to the full extent of the arm, palm to the front. Hold that position until the signal is understood.

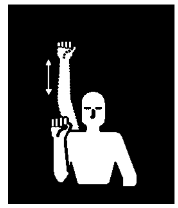


Fig. 6 - SPEED IT UP - INCREASE SPEED. Raise the hand to the shoulder, fist closed; thrust the fist upward to the full extent of the arm and back to the shoulder rapidly several times.

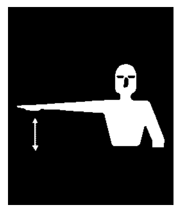


Fig. 7 - SLOW IT DOWN - DECREASE SPEED. Extend the arm horizontally sideward, palm down, and wave arm downward 45 deg. minimum several times, keeping the arm straight. Do not move arm above horizontal.

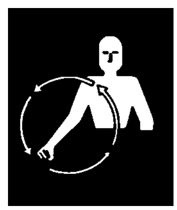


Fig. 8 - START THE ENGINE. Simulate cranking the vehicle by moving arm in a circular motion at waist level.

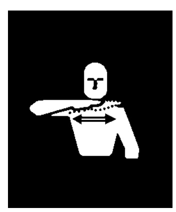


Fig. 9 - STOP THE ENGINE. Draw right hand palm down, across the neck in a "throat cutting" motion from left to right.

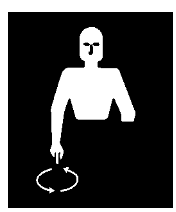


Fig. 10 - LOWER EQUIPMENT. Make circular motion with either hand pointing to the ground.

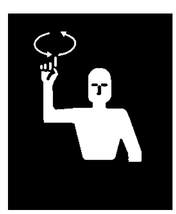


Fig. 11 - RAISE EQUIPMENT. Make circular motion with either hand at head level.

CALL FIRST

Call Your One-Call System First

Before you start any digging project, don't forget to call the local One-Call System in your area. If you don't call, you may have an accident or suffer injuries, cause interruption of services, damage the environment or experience job delays. The One-Call System will notify participating utility companies of your proposed digging activities.

If you don't know the number for the local One-Call in your area, dial the national One-Call referral number toll free, 1-888-258-0808 for this information.

Utilities will then mark their underground facilities by using the following international marking codes:

Red	- Electric
Yellow	- Gas, Oil or Petroleum
Orange	- Communication, Telephone, TV
Blue	- Potable Water
Green/Brown	- Sewer
White	- Proposed Excavation
Pink	- Temporary Survey Markings



WARNING

Always contact your local One-Call system before starting your digging project.

One-Call Safety Labels & Placards Available From
Hazard Communication Systems, Inc. W **800-748-0241**

CUSTOMER FAX ORDER FORM

THE TERRAMITE CORPORATION

600 Goff Mountain Road t P.O. Box 7146 t Charleston, WV 25356-7146 U.S.A.

Fax: 1-800-776-4845 t International Fax: (304) 776-4845

NOTE: This order form is for ease of use when ordering parts identified in this manual. Simply photocopy this page (*keep this page for future use*) and fill in the parts needed. Fax to Terramite at the number above. We will promptly respond to your request.

SOLD TO: ______________________ **SHIPPED TO:** ______________________

____

____

______________________ ______________________

Contact: ______________________ **Contact:** ______________________

Phone: ______________________ **Phone:** ______________________

Fax: ______________________ **Fax:** ______________________

DATE:	YOUR ORDER NO.:	METHOD OF PAYMENT:
FOB: CHARLESTON, WV, U.S.A.	STREET SWEEPER INFORMATION:	☐ AMERICAN EXPRESS ☐ DISCOVER ☐ MASTERCARD ☐ VISA
SHIPPED VIA ____________	MODEL # ____________	ACCOUNT NUMBER: ____________
☐ UPS ☐ NEXT DAY ☐ 2ND DAY	SERIAL # ____________	CARDHOLDER NAME (PRINT): ____________
☐ FEDEX ☐ NEXT DAY ☐ 2ND DAY	____________	CARDHOLDER SIGNATURE: ____________
☐ MOTOR FREIGHT	____________	EXP. DATE: ____________

QUANTITY ORDERED	PART NUMBER	DESCRIPTION

THANK YOU! WE APPRECIATE YOUR BUSINESS!

CUSTOMER FAX ORDER FORM

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Contact: ______________________ **Contact:** ______________________

Phone: ______________________ **Phone:** ______________________

Fax: ______________________ **Fax:** ______________________

DATE:	YOUR ORDER NO.:	METHOD OF PAYMENT:
FOB: CHARLESTON, WV, U.S.A.	STREET SWEEPER INFORMATION:	☐ AMERICAN EXPRESS ☐ DISCOVER ☐ MASTERCARD ☐ VISA
SHIPPED VIA ____________	MODEL # ____________	ACCOUNT NUMBER: ____________
☐ UPS ☐ NEXT DAY ☐ 2ND DAY	SERIAL # ____________	CARDHOLDER NAME (PRINT): ____________
☐ FEDEX ☐ NEXT DAY ☐ 2ND DAY	____________	CARDHOLDER SIGNATURE: ____________
☐ MOTOR FREIGHT	____________	EXP. DATE: ____________

QUANTITY ORDERED	PART NUMBER	DESCRIPTION

THANK YOU! WE APPRECIATE YOUR BUSINESS!

Since 1965

terramite®

CONSTRUCTION EQUIPMENT

SECTION TWO

PARTS

Please Note: Left or Right is Determined from the Operator's Position

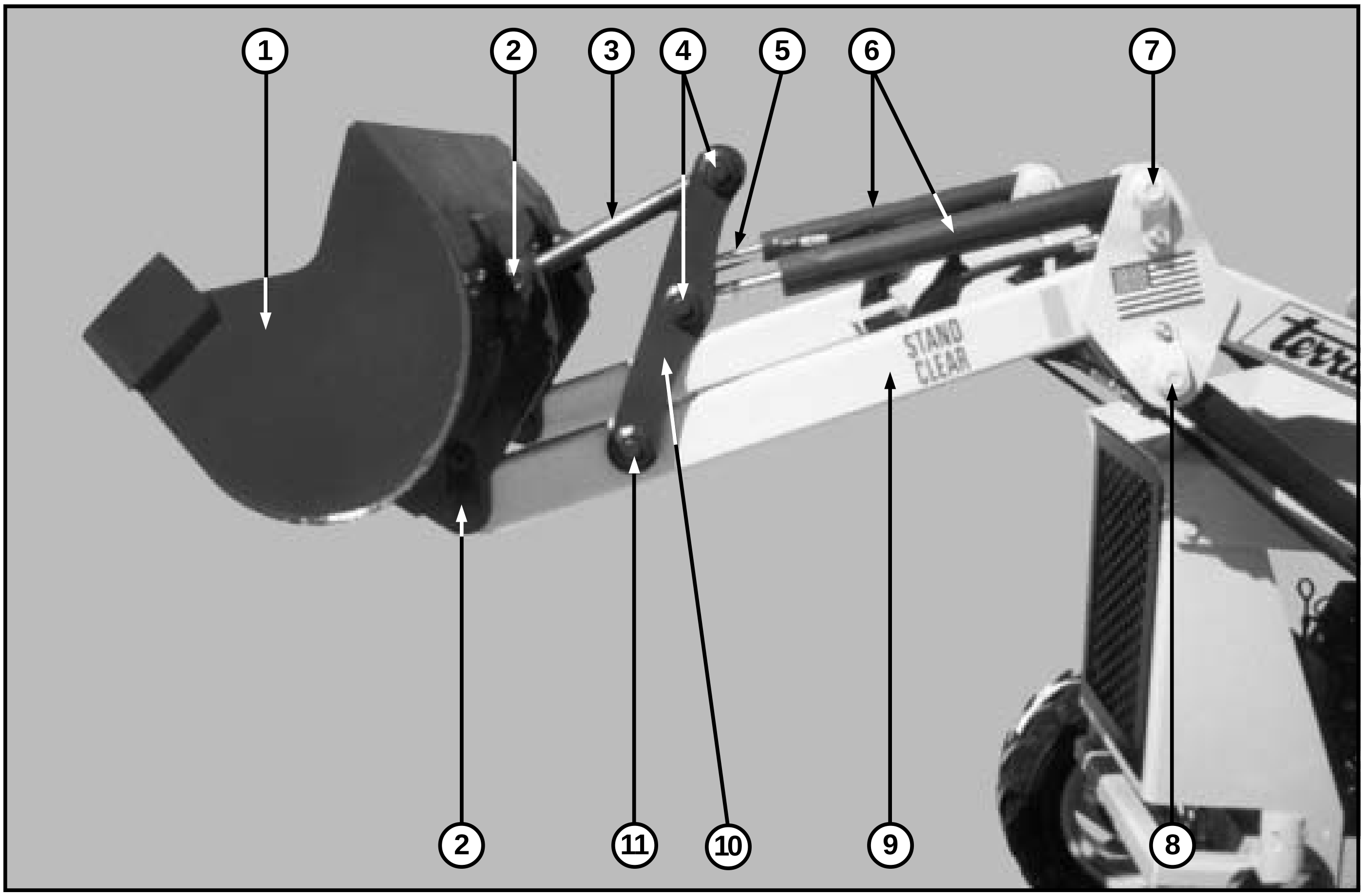
Operator Position for Endloader Use



Operator Position for Backhoe Operation

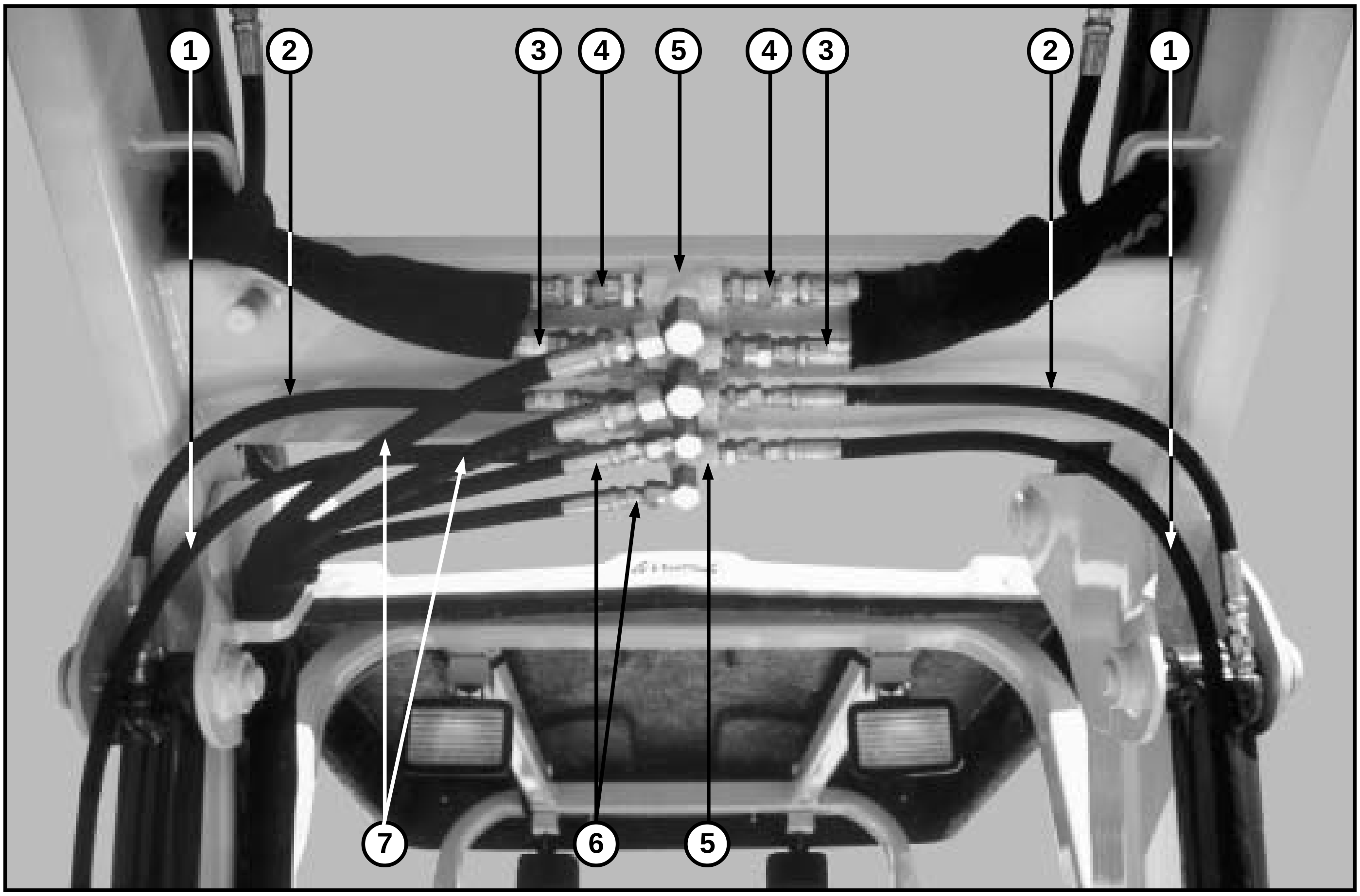


View from Left Side of Loader Bucket



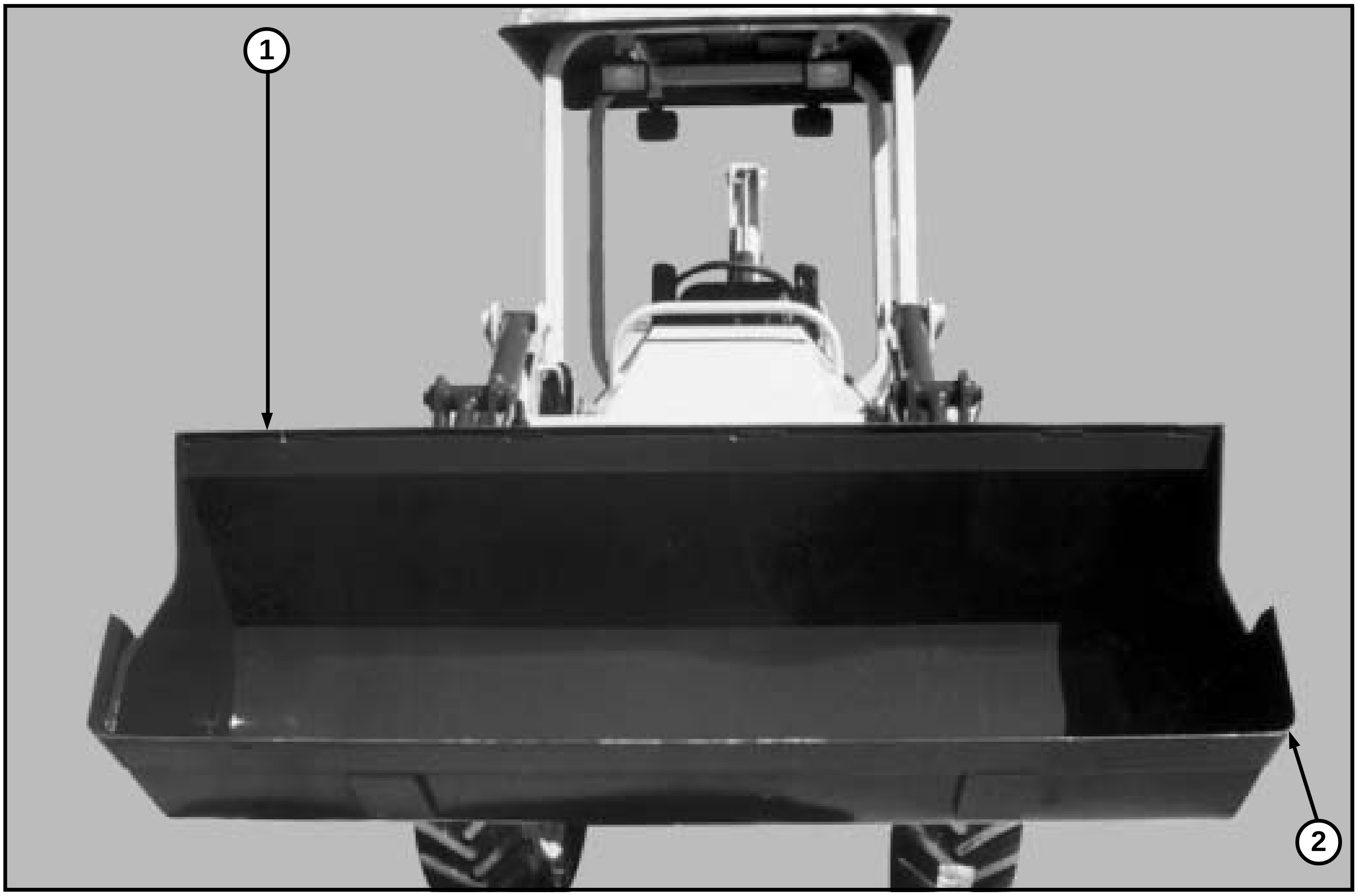
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13357	Loader Bucket	1
2	13200	Pin, Front Bucket 4$^{3}/_{4}$"	4
3	12037	Link, Rod Loader	2
4	17176	Pin, Arm Link 5$^{1}/_{2}$" L	2
5	82073	Rod, Front Curl 22$^{1}/_{4}$" x 1$^{1}/_{8}$"	2
6	82074	Cylinder, Front Curl Right	1
	82066	Cylinder, Front Curl Left	
7	17179	Pin, Arm Link 5$^{1}/_{2}$" L OVR Bend	2
8	12600	Pin, 5$^{1}/_{4}$"	
9	12034	Arm Assembly T7	1
10	12043	Plate, Arm Link, Welded Right	1
	12044	Plate, Arm Link, Welded Left	
11	17178	Pin, Arm Link 5$^{1}/_{2}$" L x 1" w/grease fitting	2

View from Front with Loader Arm Assembly Raised



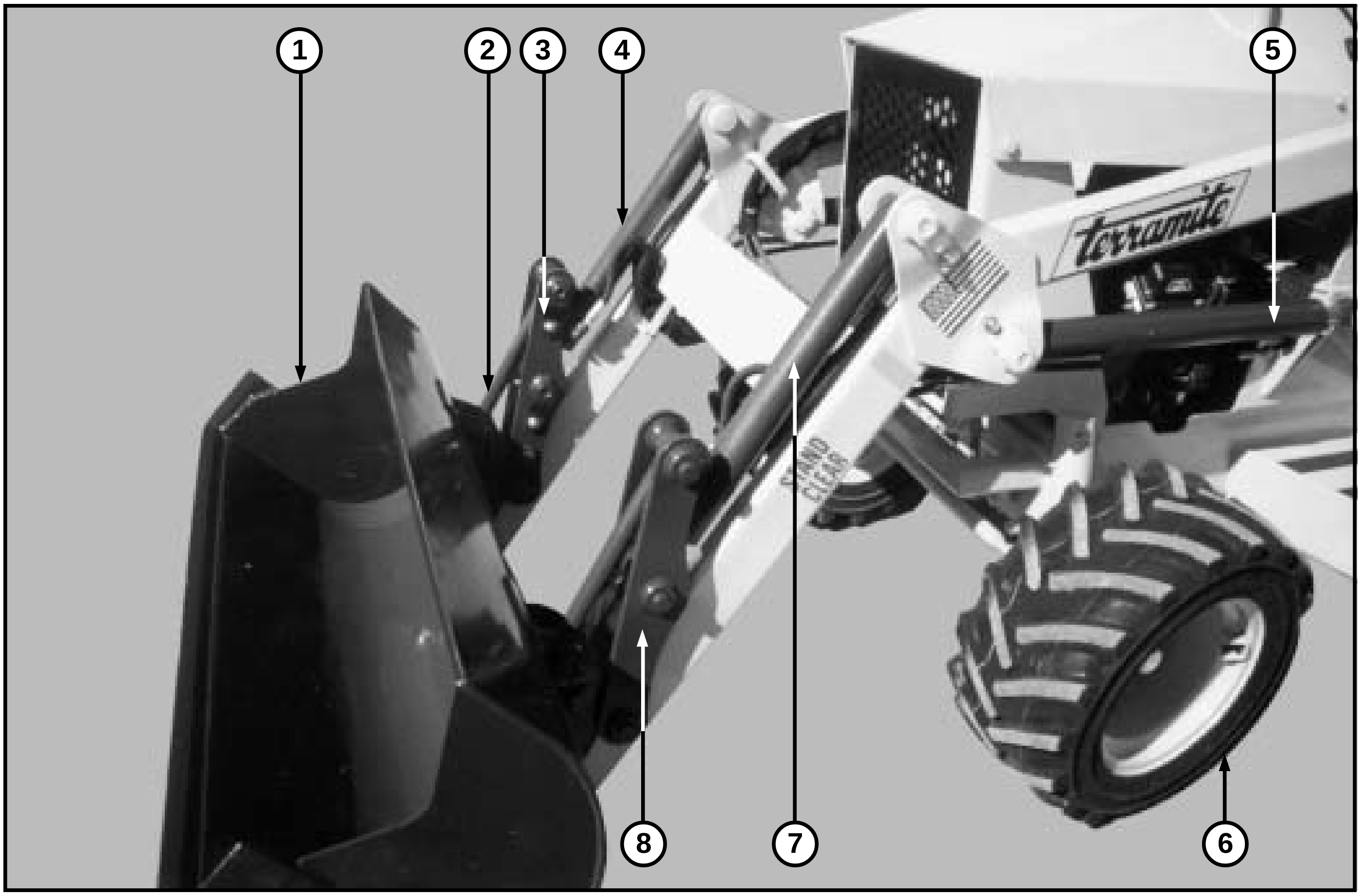
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80055	Hose, 1/4" x 38"	2
2	88418	Hose, 1/4" x 18"	2
3	80133	Hose, 3/8" x 26"	2
4	80134	Hose, 3/8" x 28"	2
5	22266	Fitting, 3/8" T Weld On	4
6	80131	Hose, 1/4" x 70"	2
7	80132	Hose, 3/8" x 70"	2

View from Front of Loader Bucket



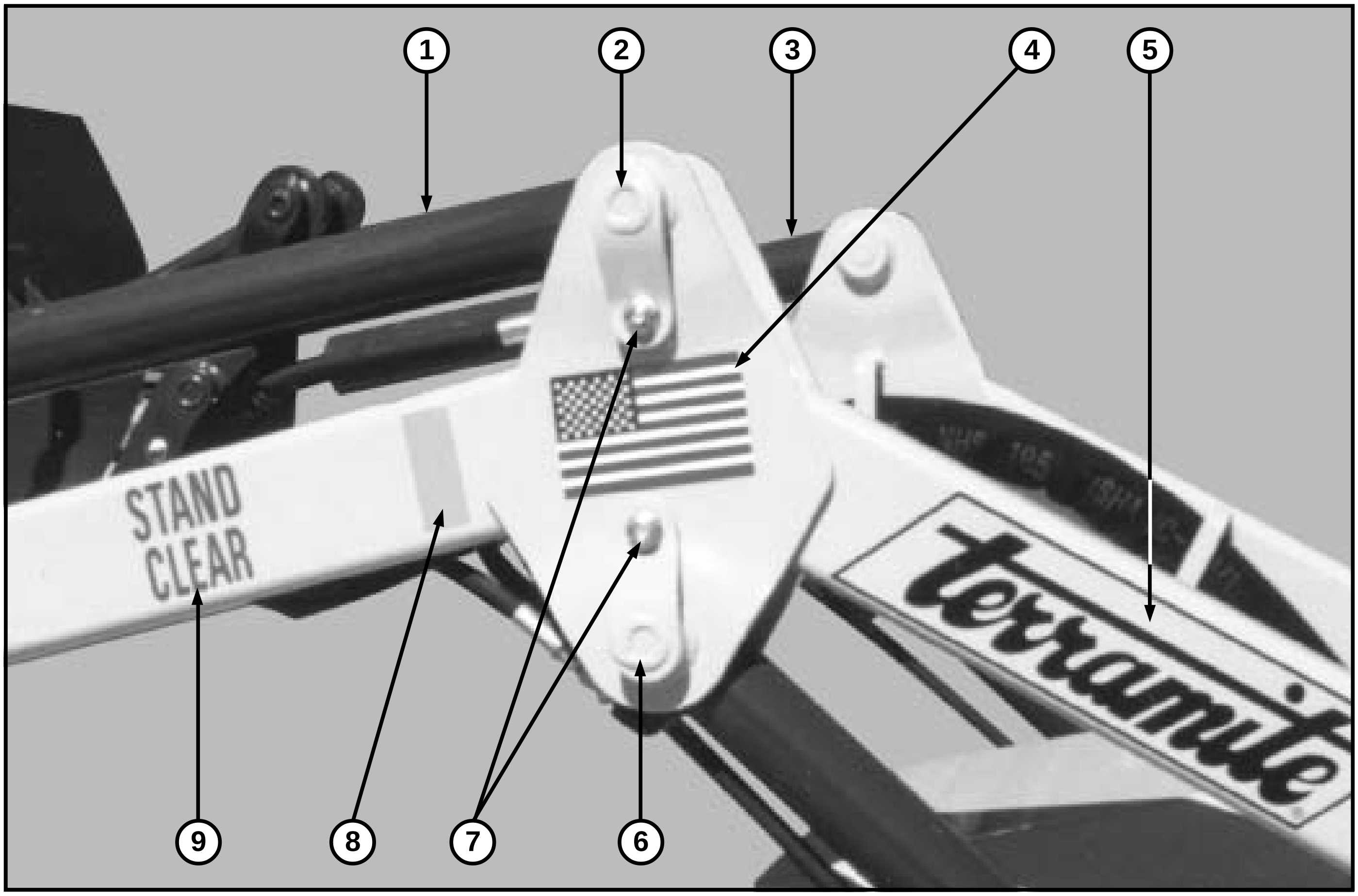
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13357	Loader Bucket	1
2	13056	Edge, Cutting, 56" Loader Weld On	1

View from Left Side of Loader Arm Assembly



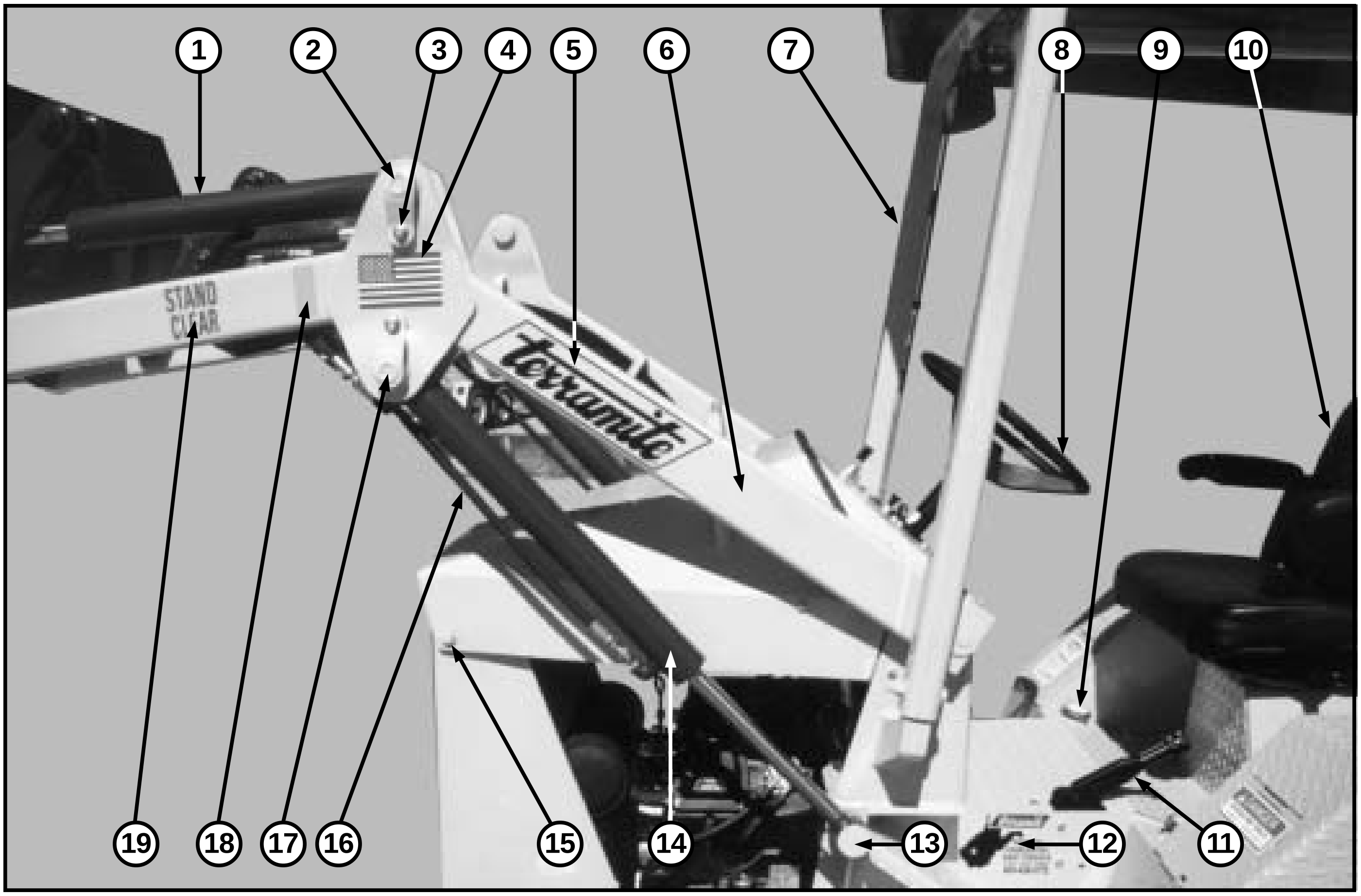
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13357	Loader Bucket	1
2	12037	Link, Rod Loader	2
3	12043	Plate, Arm Link, Welded Right	2
4	82074	Cylinder, Front Curl, Right	1
5	12026	Cylinder, Extend Lift	2
6	51007	Tire & Rim Assembly, Front 2WD	2
7	82066	Cylinder, Front Curl, Left	1
8	12044	Plate, Arm Link, Welded Left	2

View from Left Side of Loader Arm Assembly



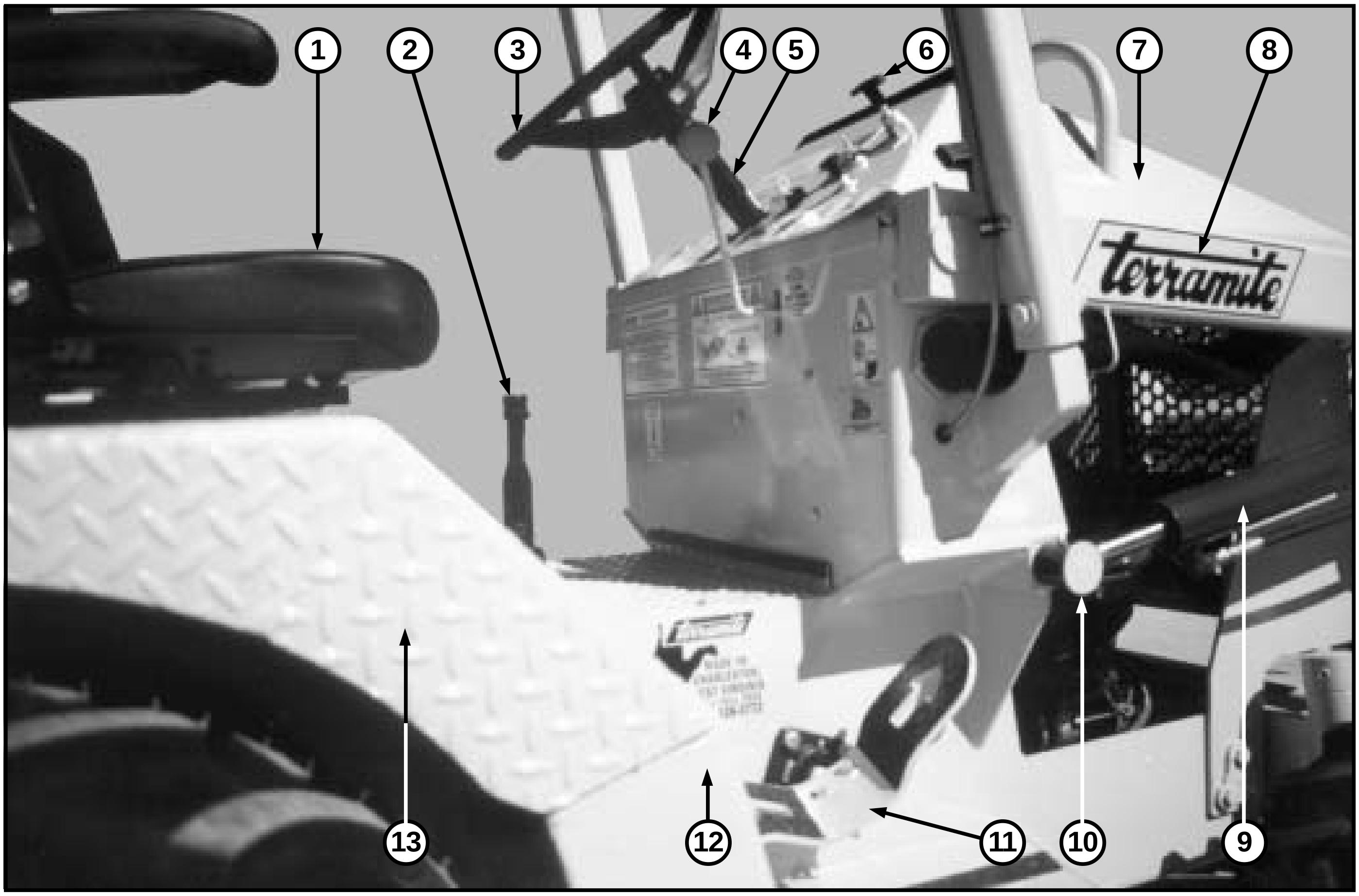
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	82066	Cylinder, Front Curl, Left	1
2	17179	Pin, Arm Cylinder/Arm Link 5 1/2" L OVR Bend	2
3	82074	Cylinder, Front Curl, Right	1
4	14099	Decal, American Flag	2
5	14001	Decal, Large Terramite	2
6	12600	Pin, 1" x 5 1/4" Arm Cylinder	2
7	23001	Nut, 3/8"-16 NC Lock Z	24
8	14021	Reflector Tape, Amber	2
9	14004	Stand Clear, Decal, Red	4

View from Left Side of Loader Arm Assembly



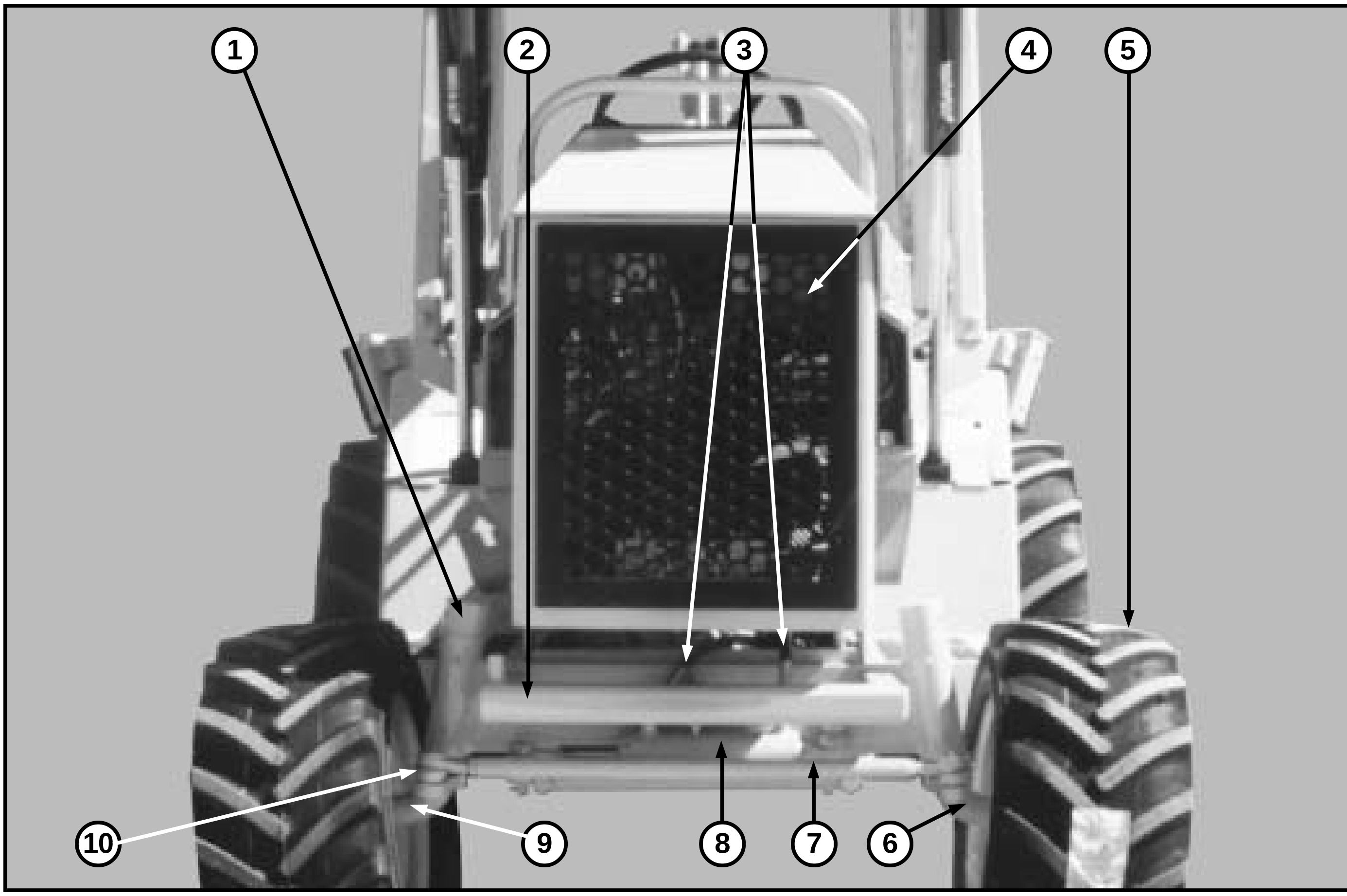
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	82066	Cylinder, Front Curl, Left	1
2	17179	Pin, Arm Cylinder/Arm Link 5 1/2" OVR Bend	2
3	23001	Nut, 3/8"-16 NC Lock Z	24
4	14099	Decal, American Flag	2
5	14001	Decal, Large Terramite	4
6	12034	Arm Assembly	1
7	18010	Front Rops Bar	1
8	13500	Steering Wheel	1
9	15077	Guage Oil Level W/6.5D	2
10	19100	Seat Assembly	1
11	56002	Brake Lever, Adj.	1
12	14070	Decal, West Virginia	2
13	12301	Pin, Arm Cylinder/Frame 7 7/8" w/Washer	2
14	12026	Cylinder, Extend Lift	2
15	22037	Bolt, 1/2" x 1 1/2" GR 8	2
16	80055	Hose, 1/4" x 3/8"	2
17	12600	Pin, 1 x 5 1/4", Arm Cylinder	2
18	14021	Reflector, Amber Tape	2
19	14004	Decal, Stand Clear, Red	4

View from Right of Dash



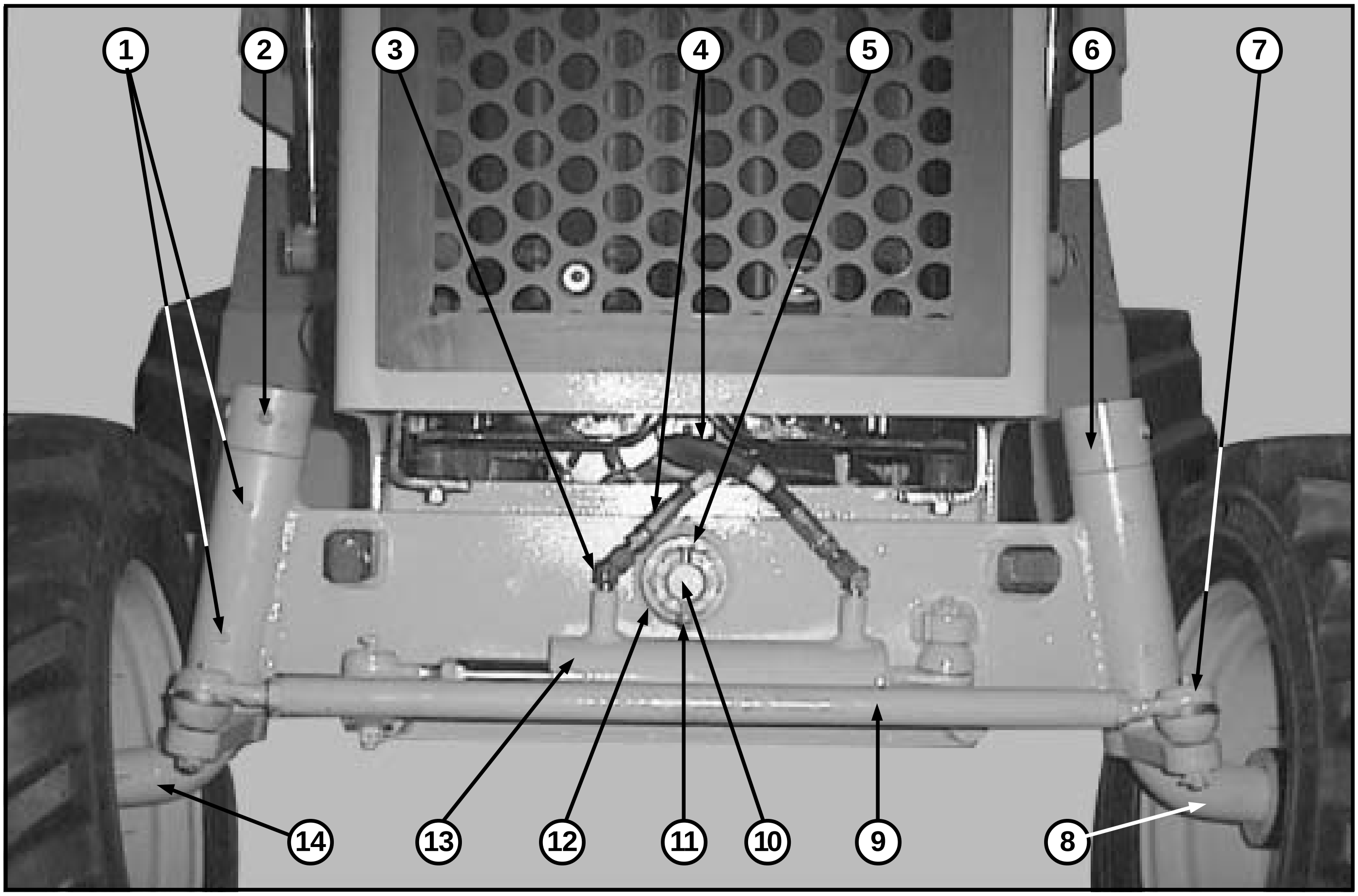
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19100	Seat Assembly	1
2	56002	Brake Lever, Adj.	1
3	13500	Steering Wheel	1
4	13942	Knob, Valve, Red	4
5	15106	Steering Gear, Power	1
6	14704	Throttle Cable "T", Handle	1
7	15089	Hood, Welded	1
8	14001	Decal, Large Terramite	4
9	12026	Cylinder, Arm Lift	2
10	12301	Pin, Arm Cylinder/Frame 7$^7/_8$" w/washer	2
11	11600	Foot Pedal	1
12	15074	Tank, Hydraulic Assembly	1
13	16145	Fender Assembly, Right	1

View of Front



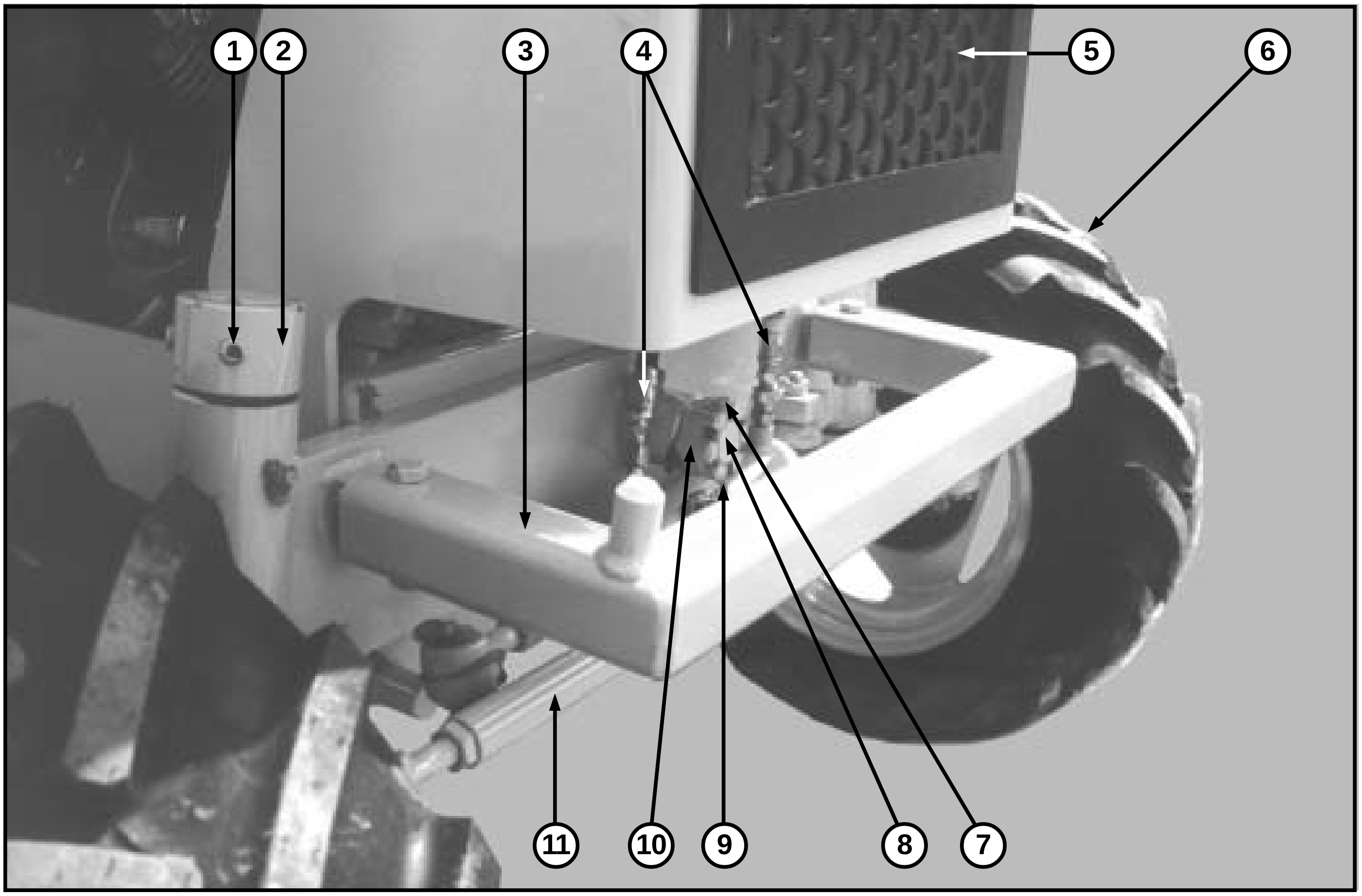
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53107	Bushing, Spindle Lock	2
2	53020	Axle/A, Front Diesel	1
3	84360	Hose, 1/4" x 36" H	2
4	15029	Grill Face Assembly	1
5	51007	Tire & Assembly, Front 2WD	2
6	53104	Spindle, Front Left 2WD	1
7	53054	Tie Rod, Power Steering	1
8	25810	Cylinder, Power Steering	1
9	53114	Spindle, Front Right 2WD	1
10	53043	Tie Rod Ends	2

View from Front of Front Axle



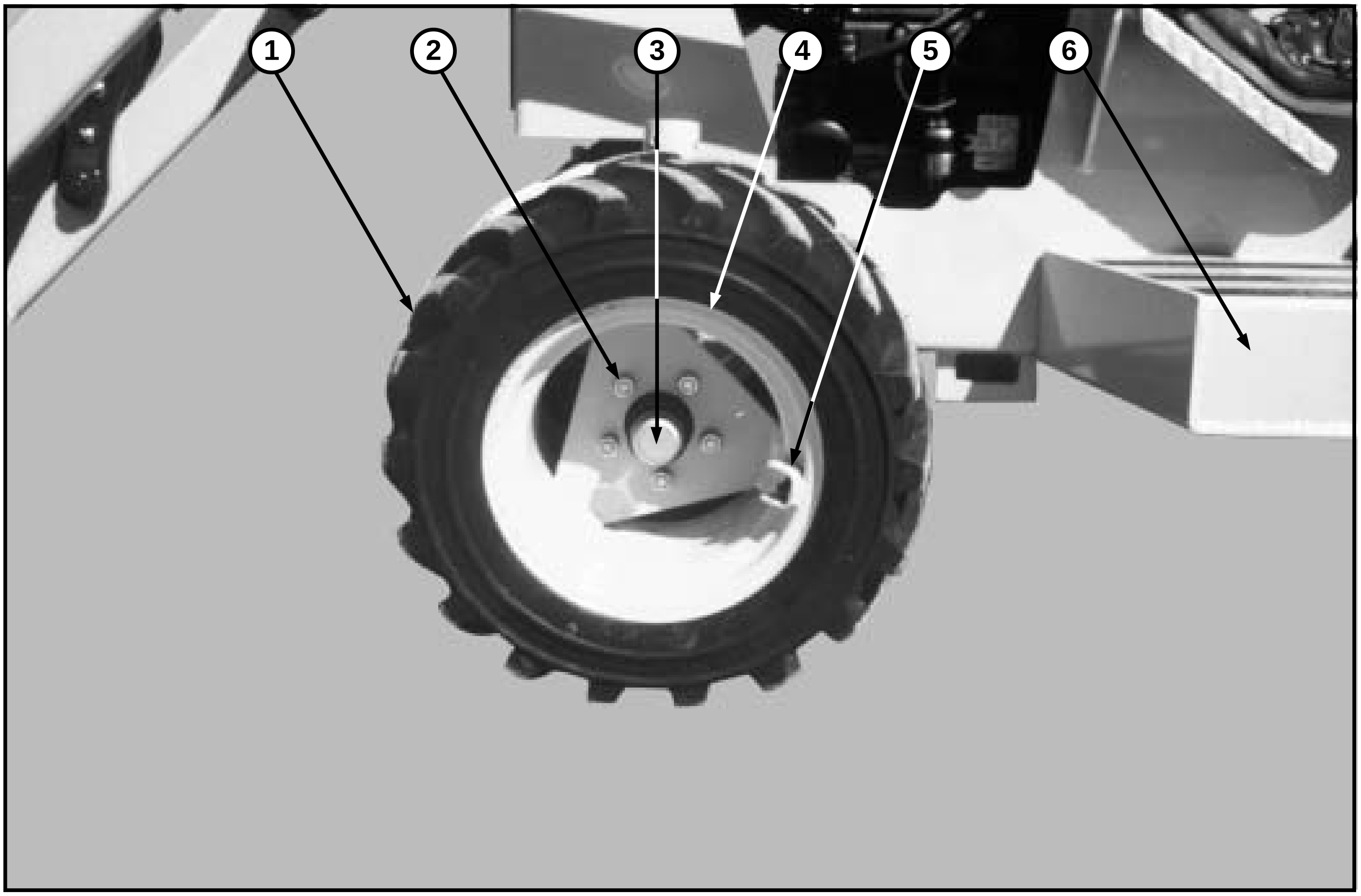
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	21428	Fitting, Grease, 1/4" - 28 Straight	32
2	28501	Screw, Set 1/2" x 20	4
3	23174	Fitting, 1/4" x 45° x 1/4" FM Swivel	2
4	84360	Hose, 1/4" x 36" H	2
5	15013	Bolt, 1/4" - 20 x 2 1/2" Gr 8	2
6	53107	Bushing, Spindle Lock	2
7	53043	Tie Rod End	3
8	53104	Spindle, Front Left 2WD	1
9	53054	Tie Rod, Power Steering	1
10	15406	Pin, Front Axle Pivot 1 1/4" x 7 1/4"	1
11	28504	Nut, 1/4" NC Lock Z	2
12	53081	Nut, Front Axle 1 1/4"-12	2
13	25810	Cylinder, Power Steering	1
14	53114	Spindle, Front Right 2WD	1

View of Front



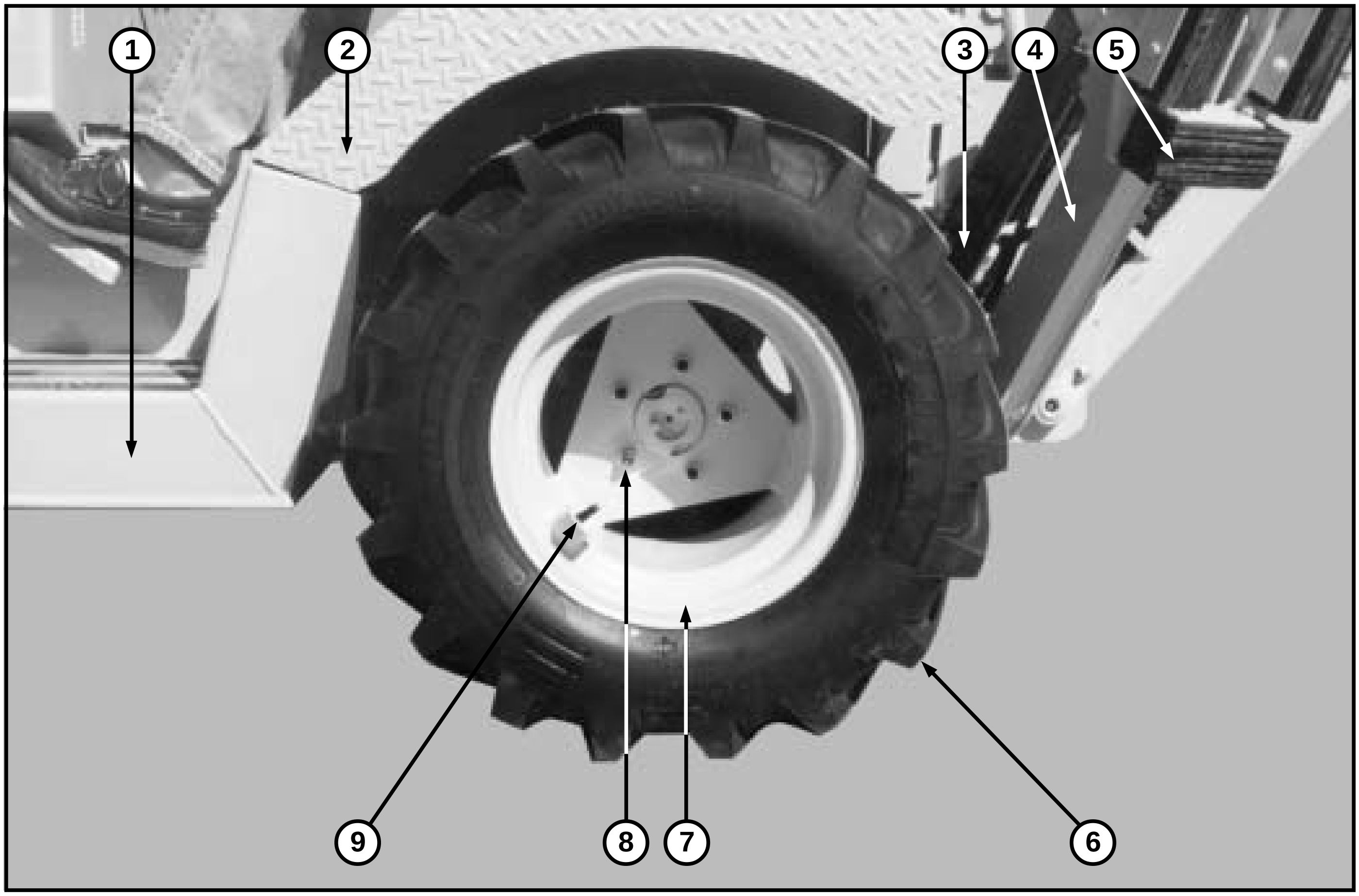
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	28501	Screw, Set 1/2" x 20	4
2	53107	Bushing, Spindle Lock	2
3	53020	Axle/A, Front Diesel	1
4	84360	Hose, 1/4" x 36" H	2
5	15029	Grill Face Assembly	1
6	51007	Tire & Assembly, Front 2 WD	2
7	15013	Bolt, 1/4" - 20 x 2 1/2" Gr 8	2
8	15406	Pin, Front Axle Pivot 1 1/4" x 7 1/4"	1
9	28504	Nut, 1/4" NC Lock Z	2
10	53081	Nut, Front Axle 1 1/4"-12	2
11	53054	Tie Rod, Power Steering	1

View of Left Front Tire and Rim



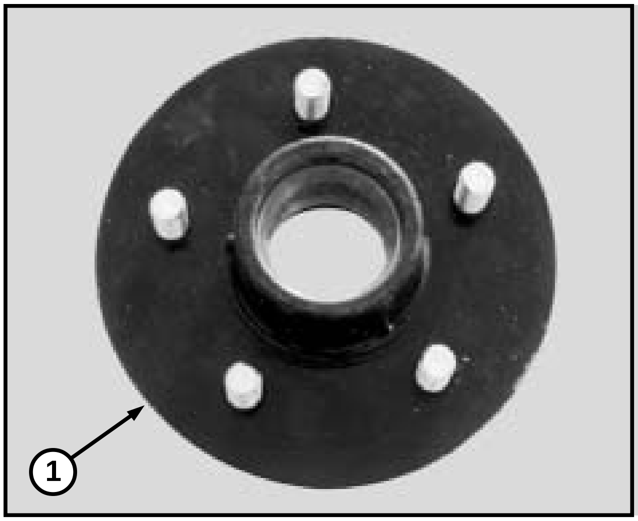
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	51275	Tire, Front 23 x 10.5 x 12	2
2	28506	Nut, Front and Rear Lug 5 on 4.5	20
3	53170	Dust Cap	2
4	51297	Rim, Front, Complete 2WD	2
5	51273	Tire Valve, Front 412	2
6	15036	Tank, Fuel	1

View of Left Rear Tire and Rim



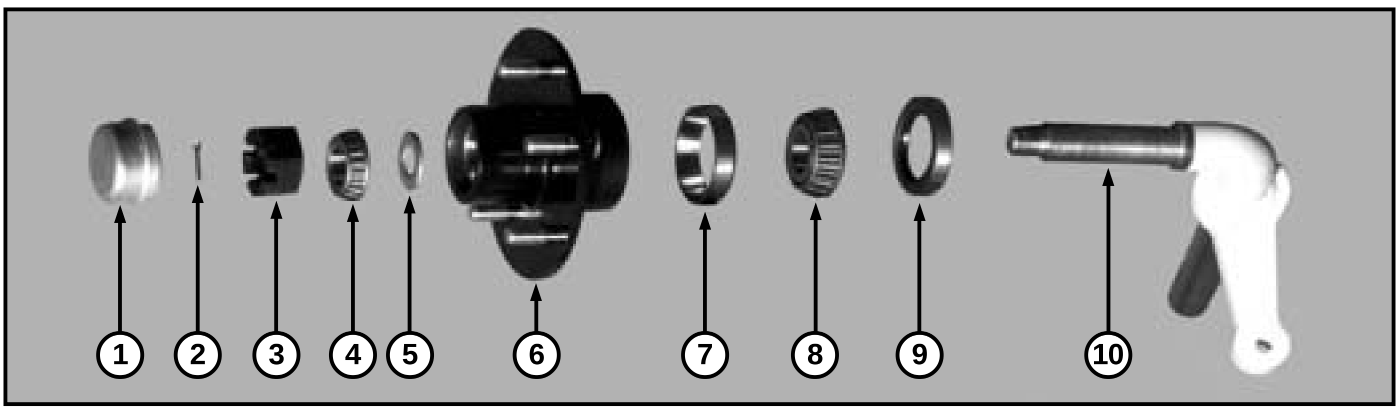
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15036	Fuel Tank	1
2	16144	Fender Assembly, Left	1
3	81139	Cylinder, Outrigger	2
4	11112	Outrigger, Welded	2
5	11111	Outrigger Pad, Welded	2
6	51173	Standard Rear Tire (T5D and T6 Only)	2
7	50005	Rim	2
8	28506	Nut, Front and Rear Lug	20
9	51003	Tire Valve	2

Front Wheel Hubs



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53136	Hub, 5 on 4 after 6-1-96	2

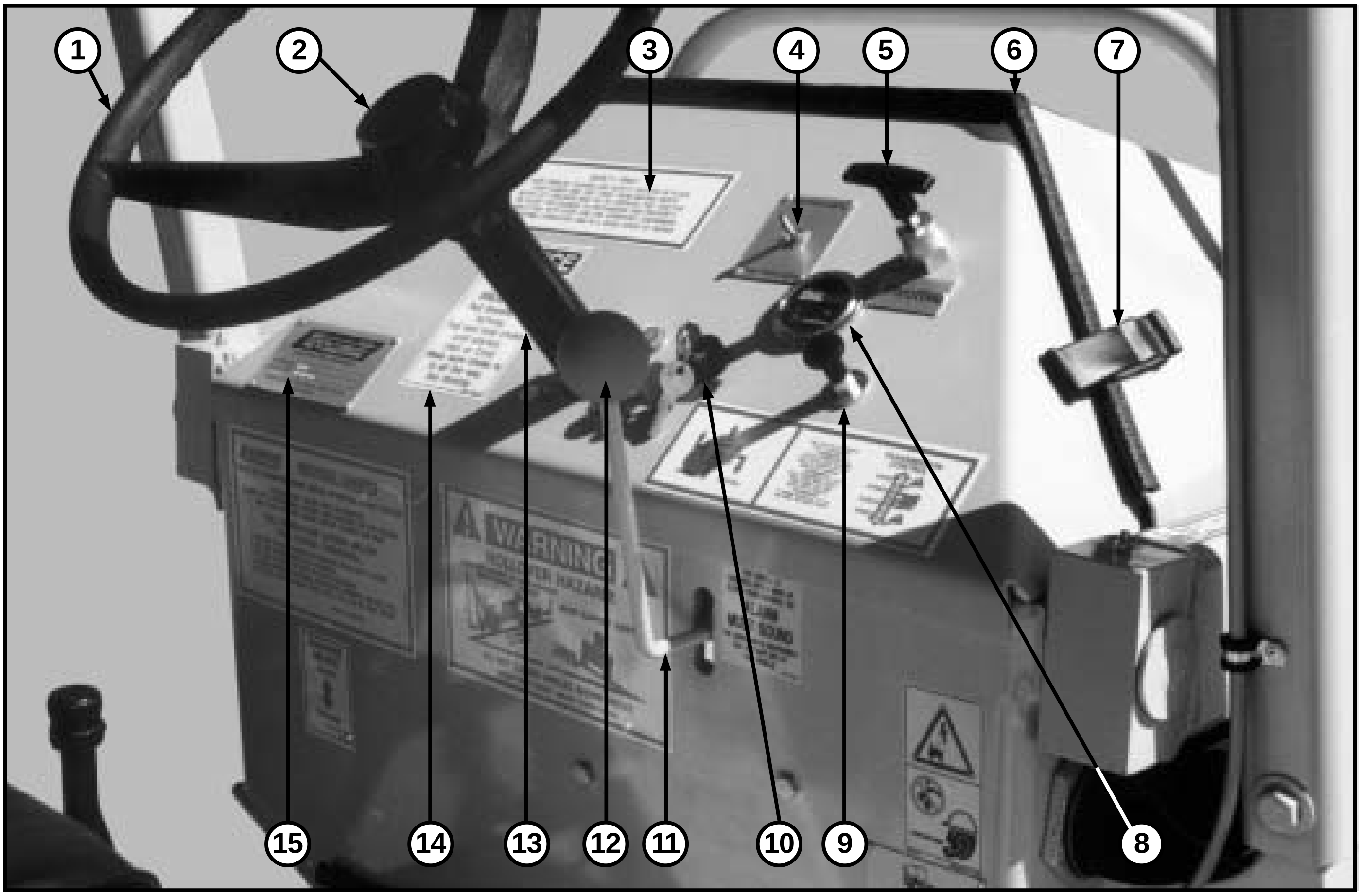
Hub Assembly and Spindle Two Wheel Drive



NOTE: THESE PART NUMBERS USED ON MACHINES BUILT AFTER 6-96. WHEN ORDERING, SUPPLY SERIAL NUMBER OF YOUR MACHINE.

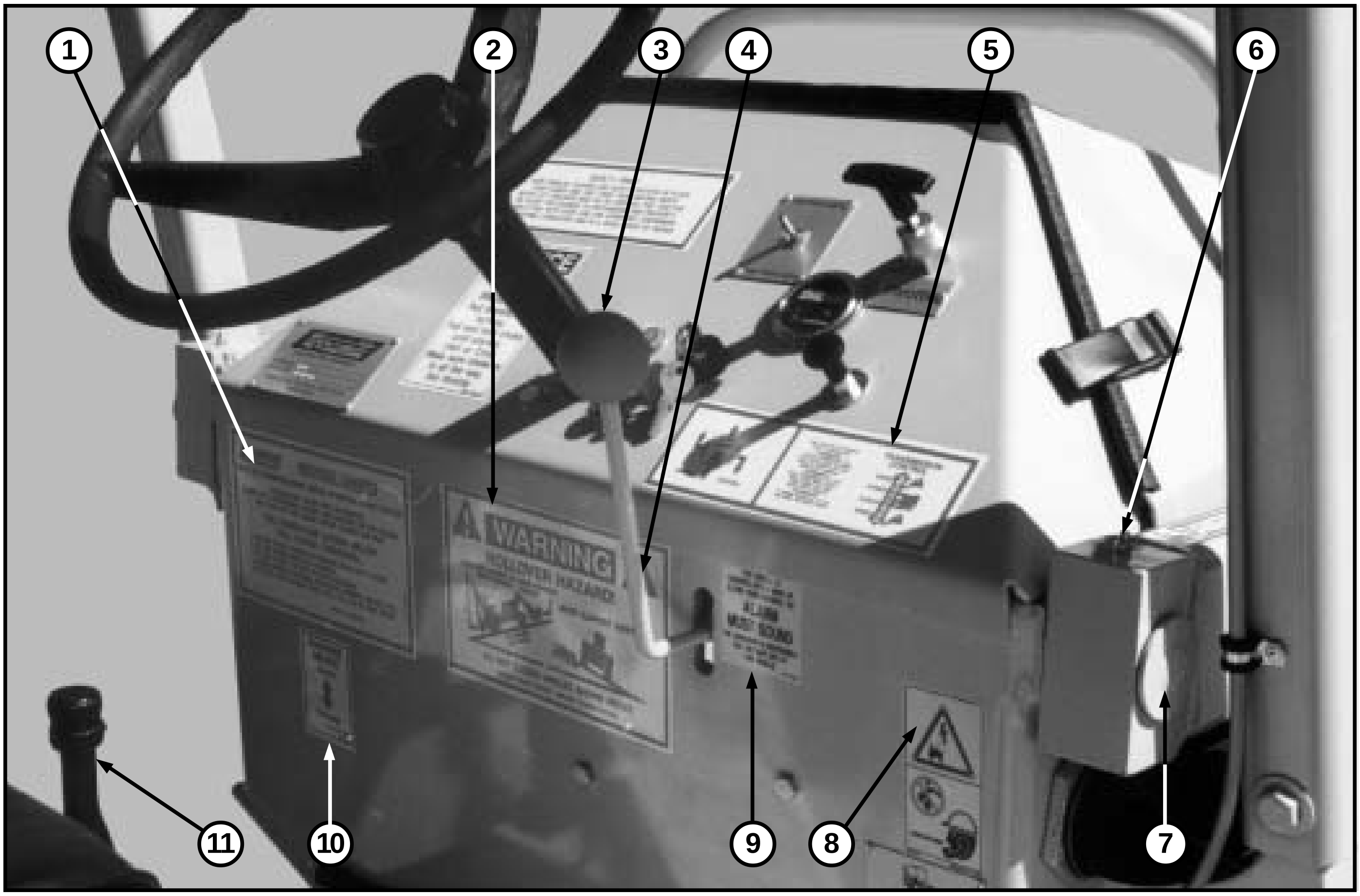
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53170	Dust Cap	1
2	53160	Cotter Pin	1
3	53150	Nut	1
4	53125	Bearing, Outer	1
5	53140	Washer	1
6	53136	Hub, 5 on 4 after 6-1-96	1
7	53124	Race, Inner	1
8	53123	Bearing, Inner	1
9	53111	Seal	1
10	53116	Spindle	1

View of Dash from Right Side of Operator Position



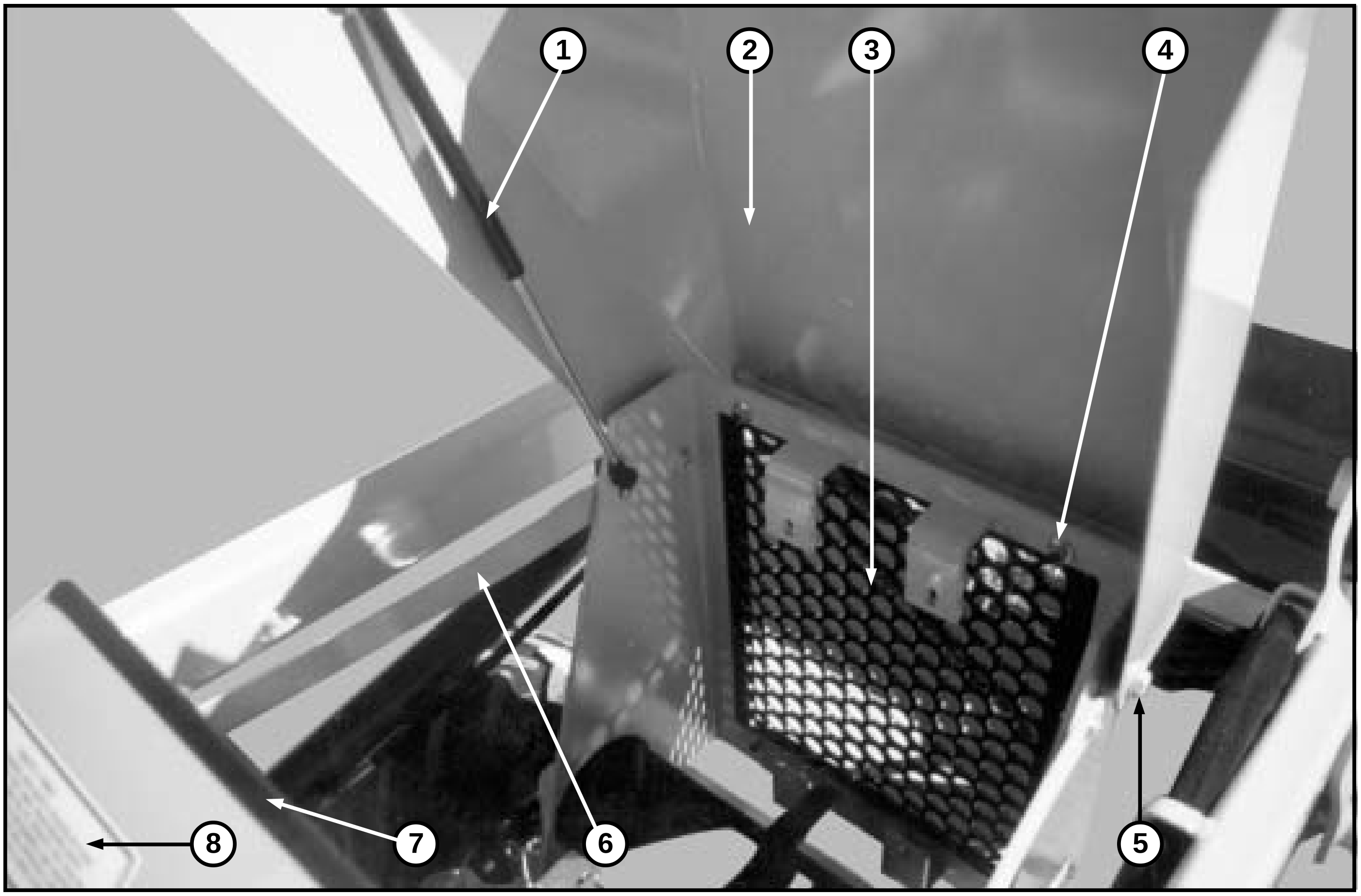
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13500	Steering Wheel	1
2	13501	Cap, Steering Wheel	1
3	14201	Decal, Safety First	1
4	74000	Toggle Switch, Double Throw	1
5	14704	Throttle Cable	1
6	10039	Trim Lock	1
7	15542	Hood Latch	2
8	77080	Hour Meter	1
9	14801	Choke Cable	1
10	70336	Switch, Ignition, Gasoline Type	1
	70335	Switch, Ignition, Diesel Type	
11	13072	Lever, Front Valve	1
12	13942	Knob, Red	4
13	15106	Steering Gear	1
14	14023	Decal, Starting Notice	1
15	14012	Plate, Serial Number	1

View of Dash from Right Side of Operator Position (continued)



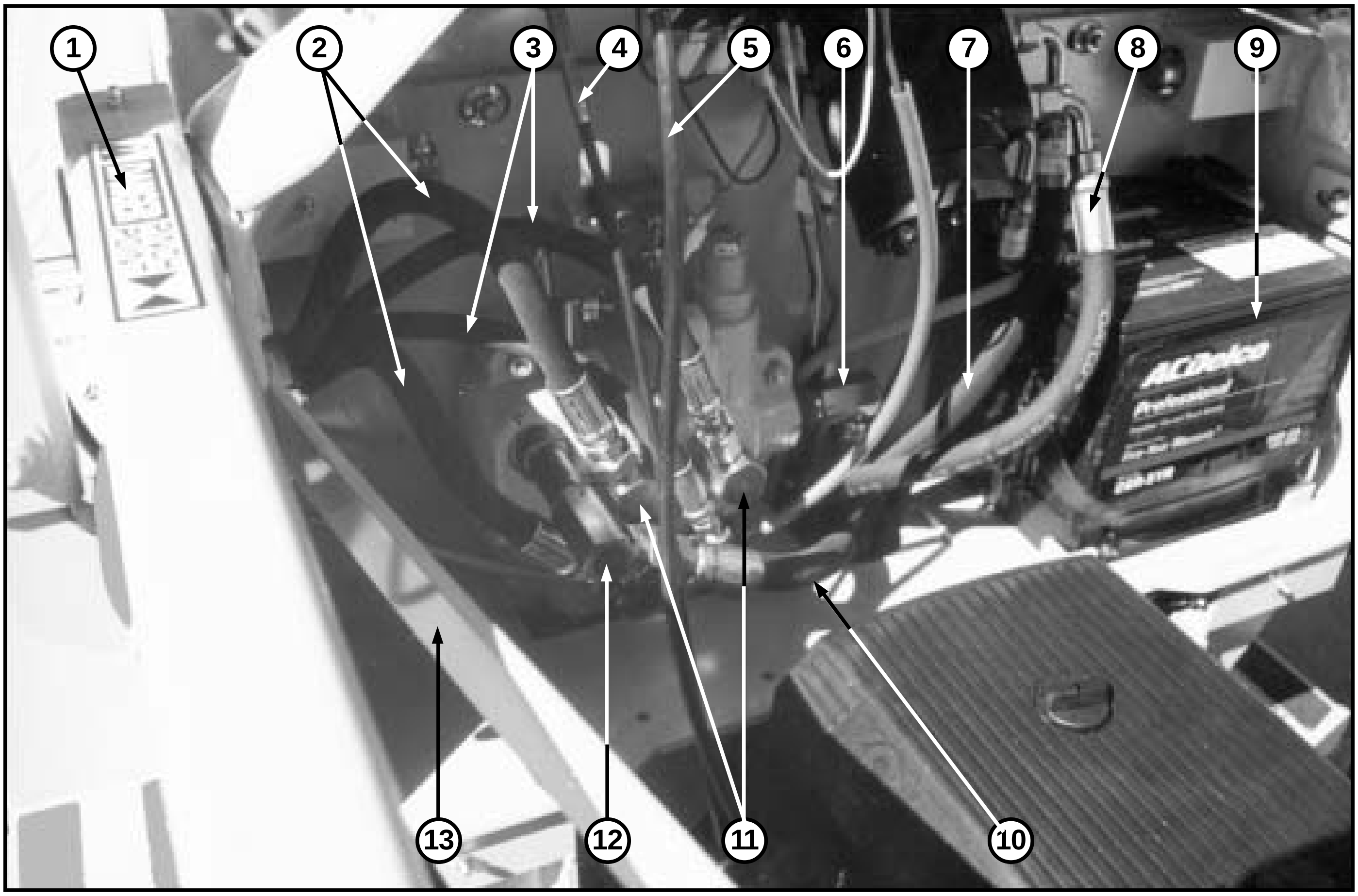
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14203	Decal, Read Manual	1
2	14202	Decal, Warning! Rollover	1
3	13942	Knob, Red	1
4	13072	Lever, Front Valve	1
5	14204	Decal, Controls	1
6	21428	Fitting, Grease, Straight	32
7	12300	Pin, 6 7/8" w/Washer	2
8	14053	Decal, Call Before U-Dig	1
9	14926	Decal, Alarm Must Sound	1
10	14076	Decal, Parking Brake	1
11	56002	Brake Lever Adj.	1

View from Operators Position with Hood Assembly Raised



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	61690	Hood Shocks	2
2	15089	Hood T5D	1
3	15029	Grill, Face Plate	1
4	20082	Nut, 3/8" Flange	2
5	22026	Stud, 3/8" Hinge Hood	2
6	10125	Brace, Dash To Grill	2
7	10039	Trim Lock, Dash Panel	1
8	14201	Decal, Safety First	1

View of Loader Valve Hoses and Fittings from Right Side of Engine Compartment Under Hood Assembly



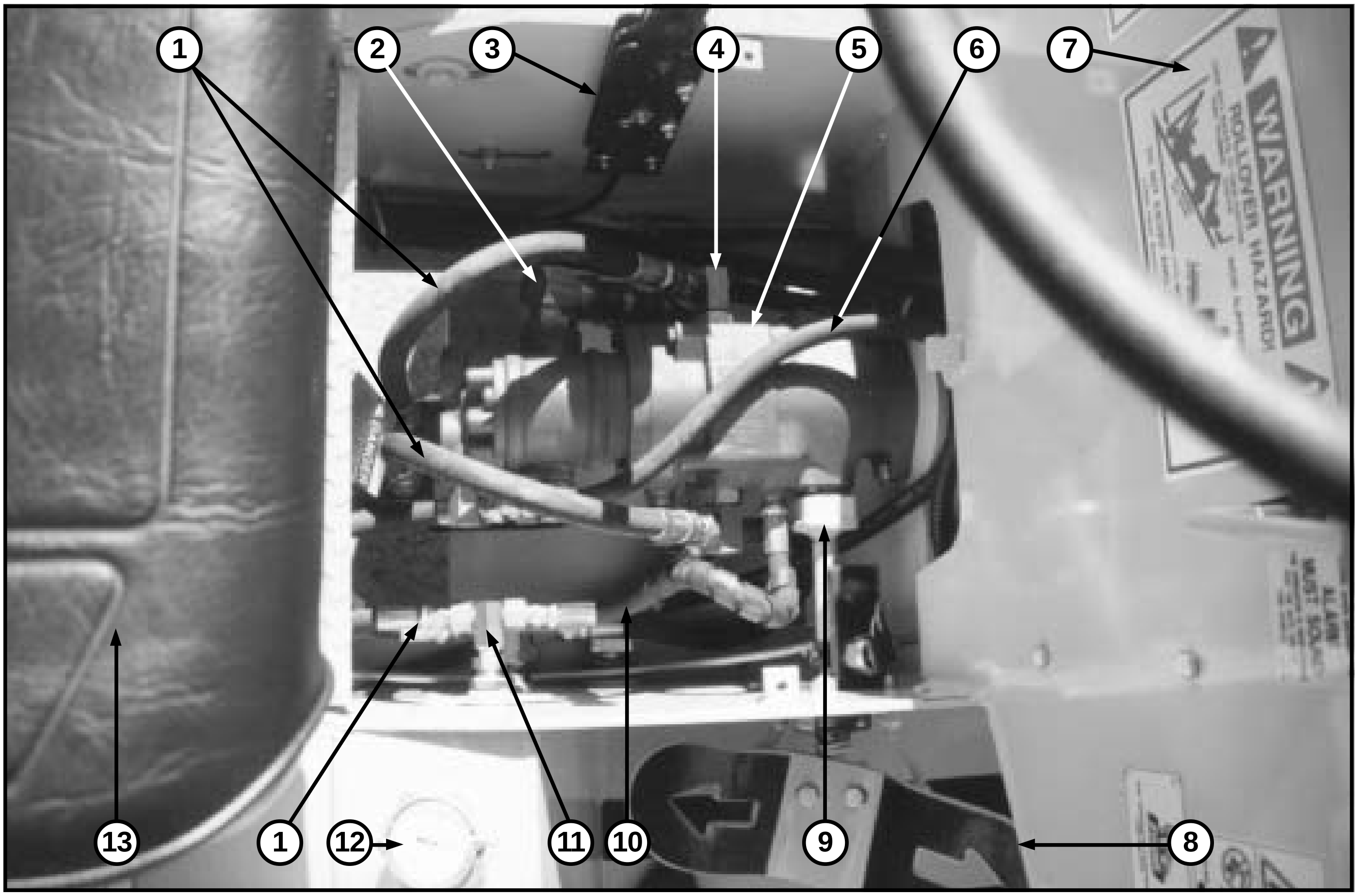
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14100	Decal, Pinch Point	2
2	80132	Hose, 3/8" mp X 70"	2
3	80131	Hose, 1/4" mp X 70"	2
4	14801	Cable Choke	1
5	14704	Cable Throttle	1
6	21978	Fitting,1/2" mp X 1/2" 90° Swivel	1
7	88658	Hose, 3/8" X 58" Short 90°	2
8	77022	Battery T4-T6	1
9	88835	Hose, 1/2" X 35"	1
10	22784	Fitting, 1/2" mp 90° X 1/4" Swivel	2
11	22278	Fitting, 1/2" 90° X 1/2" Swivel	1
12	20786	Fitting, 1/2"mp X 3/8" Swivel	2
13	10125	Brace, Dash To Grill	2

View of Loader Valve Hoses and Fittings from Right Side of Dash Under Hood Assembly



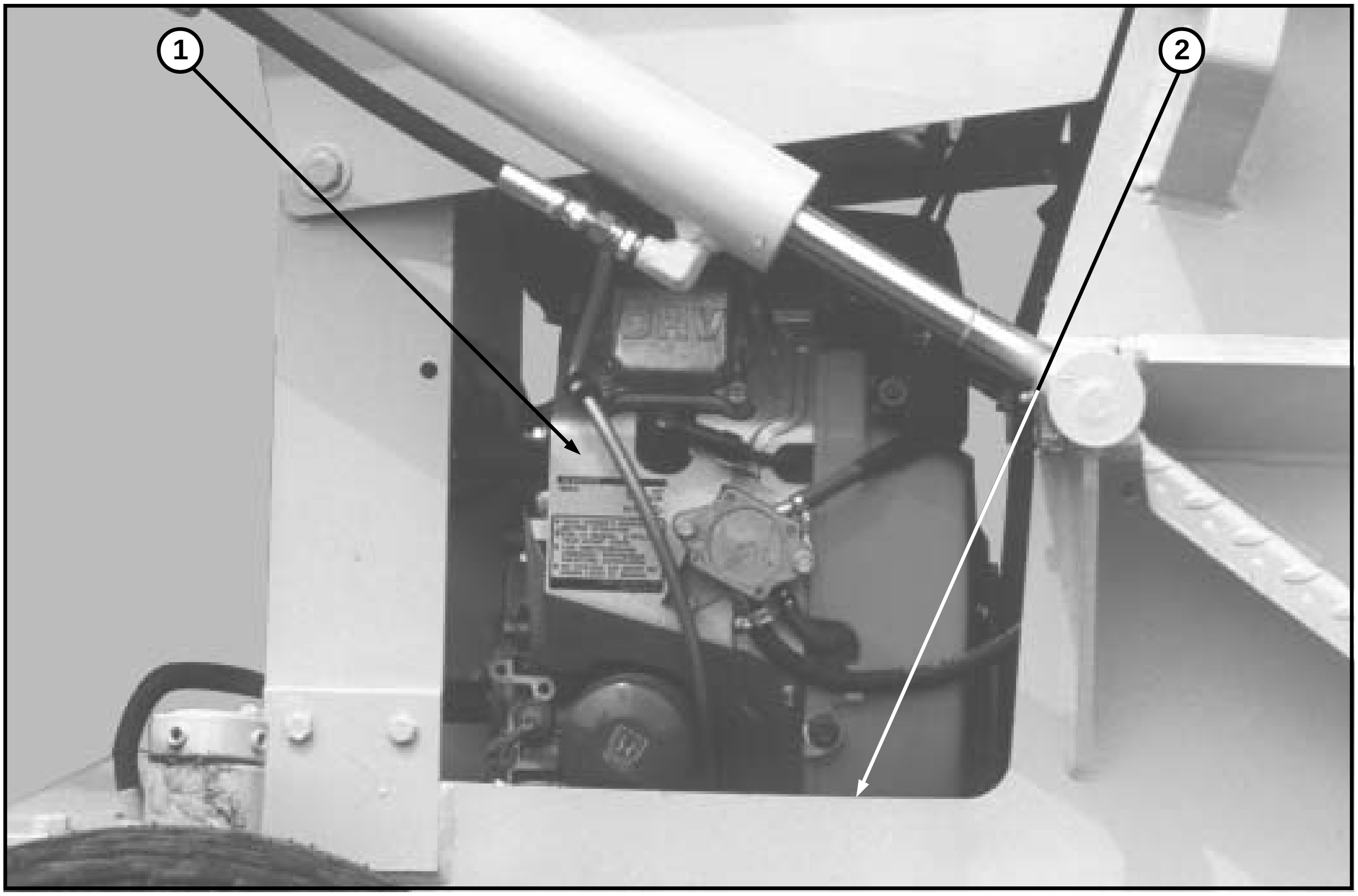
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	88465	Hose, 1/4" X 65" #4 JIC Short 90°	2
2	88658	Hose 3/8" X 58" #6 JIC Short 90°	2
3	73230	Cable, Battery Red 24" Diesel	1
	72047	Cable, Battery Red 12" Gas	
4	15033	Hold Down, Battery	1
5	72028	Cable, Battery Black 8"	1
6	77022	Battery T4-T6	1
7	10125	Brace, Dash To Grill	2
8	84021	Valve, Assembly T5D	1
9	88835	Hose, 1/2" X 35"	1

View from Top - Transmission Assembly



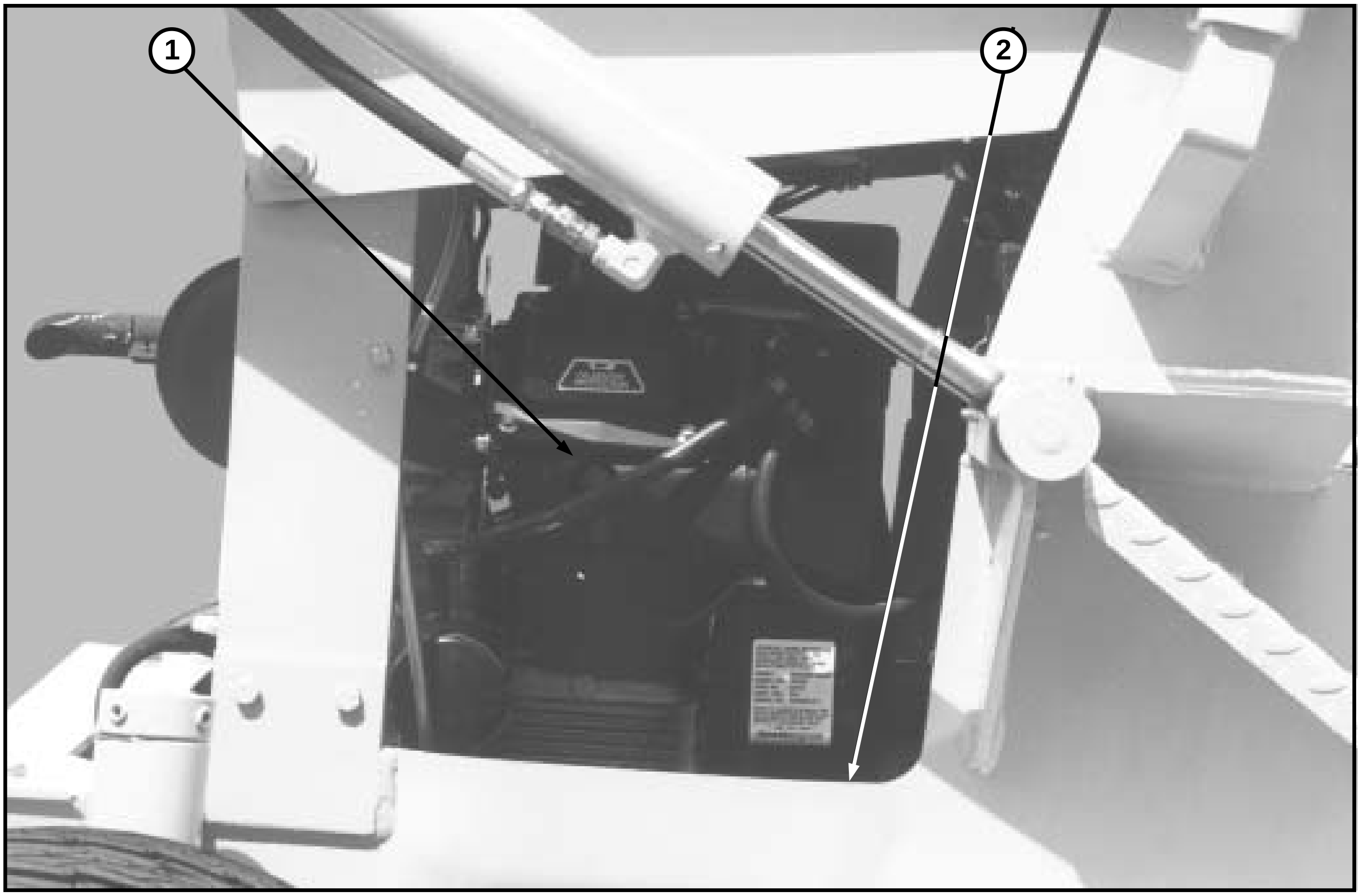
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	88820	Hose, 1/2" x 20"	2
2	20001	Fitting, #15 O.R. x #16 JIC 90°	1
3	56002	Brake Lever	1
4	27128	Fitting, #12 O.R. x 1/2" FM 90° Swivel	2
5	64011	Transmission, w/Tandem Pump	1
6	88835	Hose, 1/2" x 35"	1
7	14202	Decal, Roll Over Warning T5D-T6	1
8	11600	Foot Pedal	1
9	11620	Pedal Shaft	1
10	88614	Hose, 3/8" x 14" #6 SHT JIC x 3/8" MP	1
11	20786	Fitting, 1/2" MPTEE x 3/8" FM Swivel 90°	1
12	15077	Cap, Gauge Hydraulic	2
13	19100	Seat, Assembly w /swivel T6-T5D	1

View of Honda Engine from Left of Operator's Position



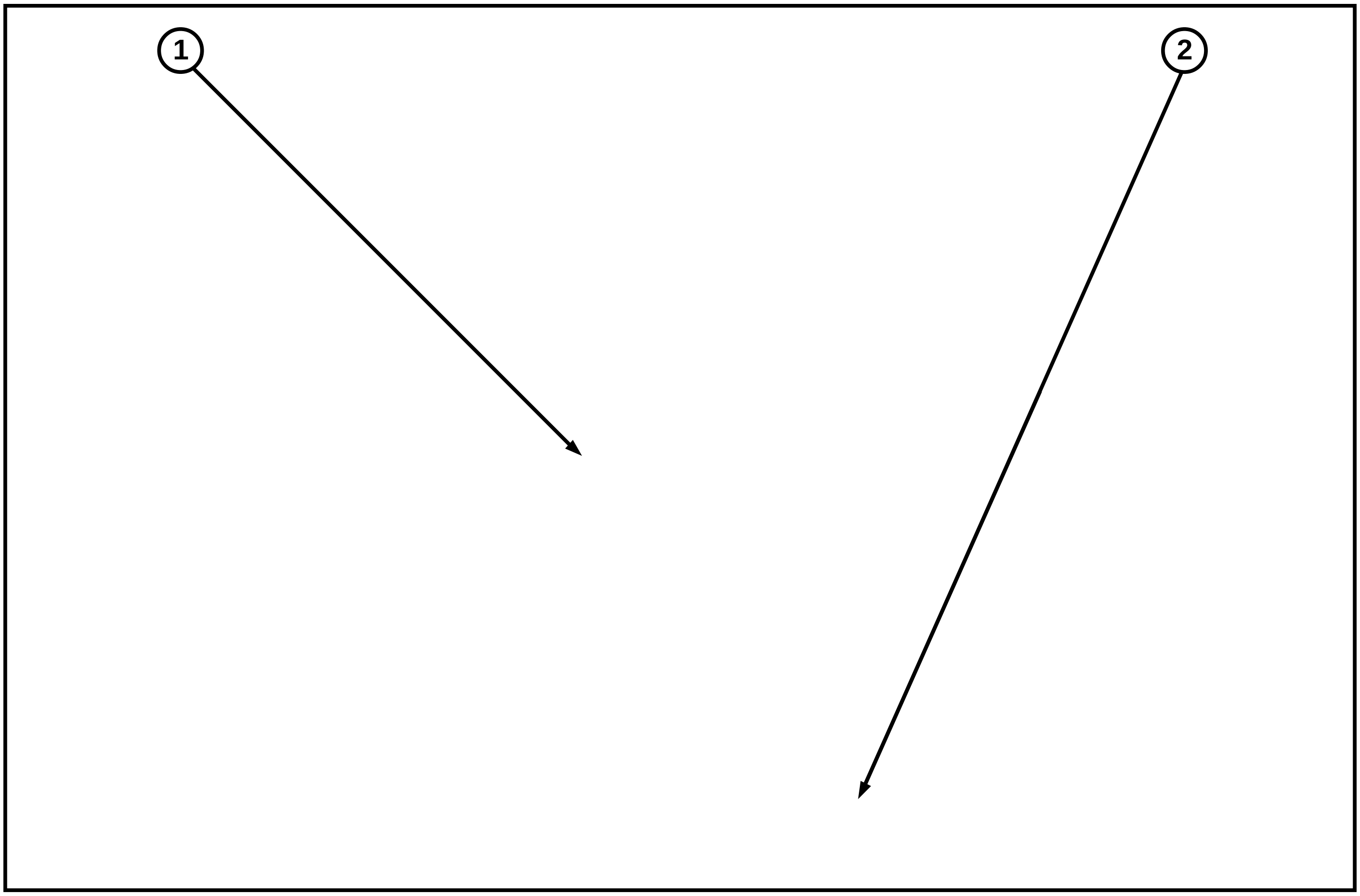
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	?????	Engine, Honda	1
2	16114	Plate, Honda Engine Adaptor (Not Shown)	1

View of Kohler Command Engine from Left of Operator's Position



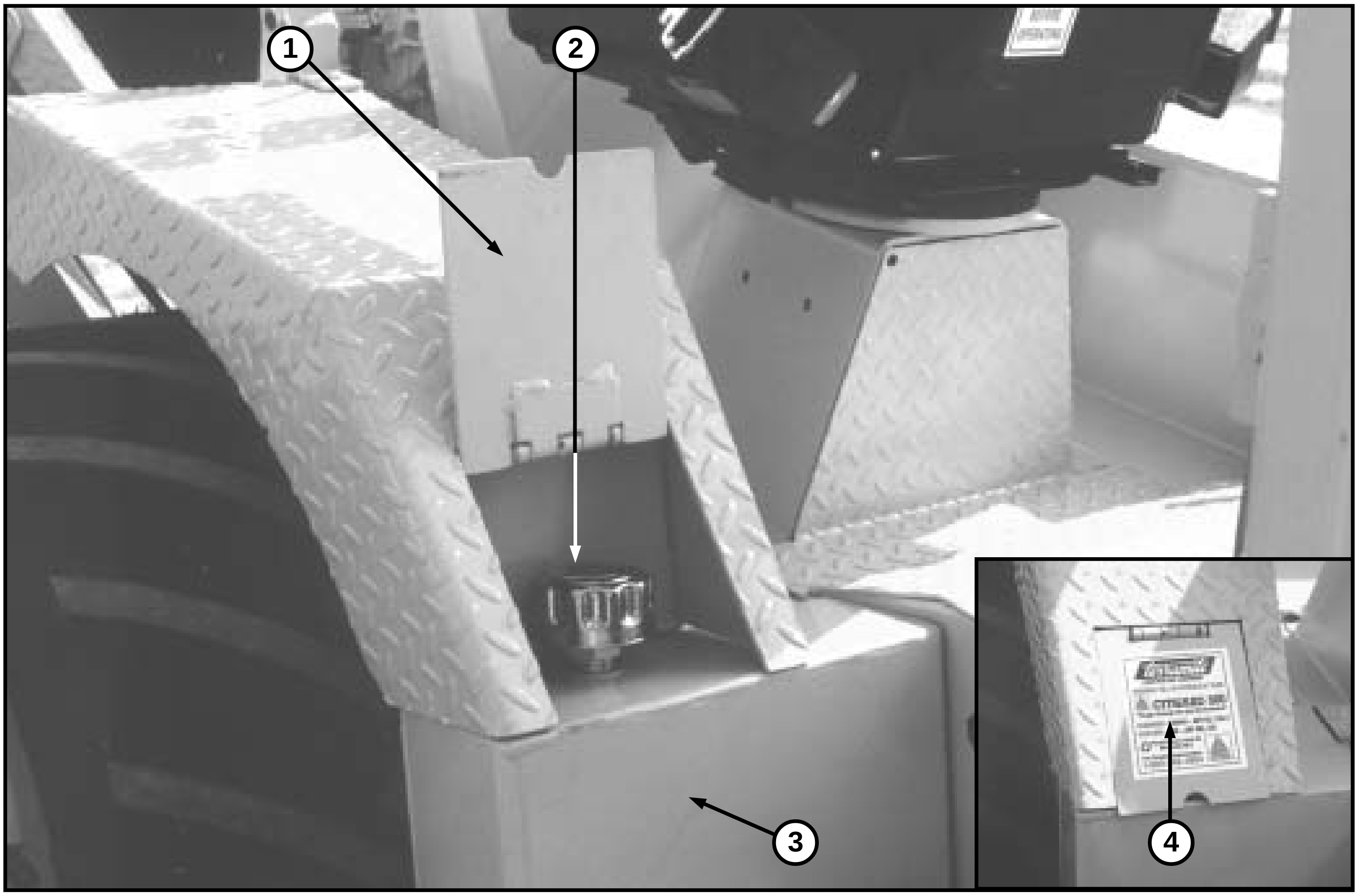
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	?????	Engine, Kohler Command	1
2	?????	Plate, Kohler Command Engine Adaptor (Not Shown)	1

View of Vangard Engine from Left of Operator's Position



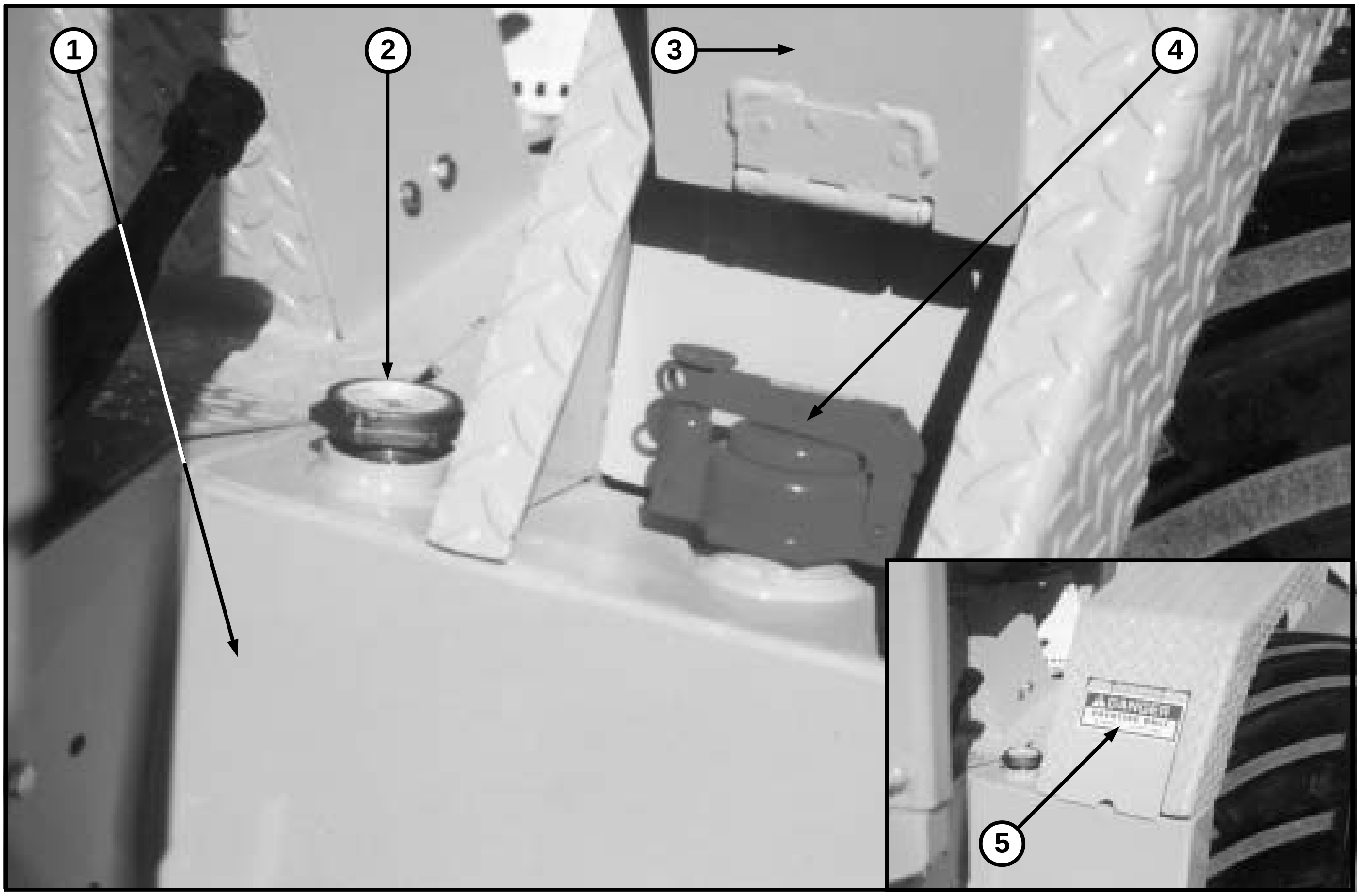
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	?????	Engine, Vangard	1
2	16248	Plate, Vangard Engine Adaptor (Not Shown)	1

View from Left Side of Fuel Tank



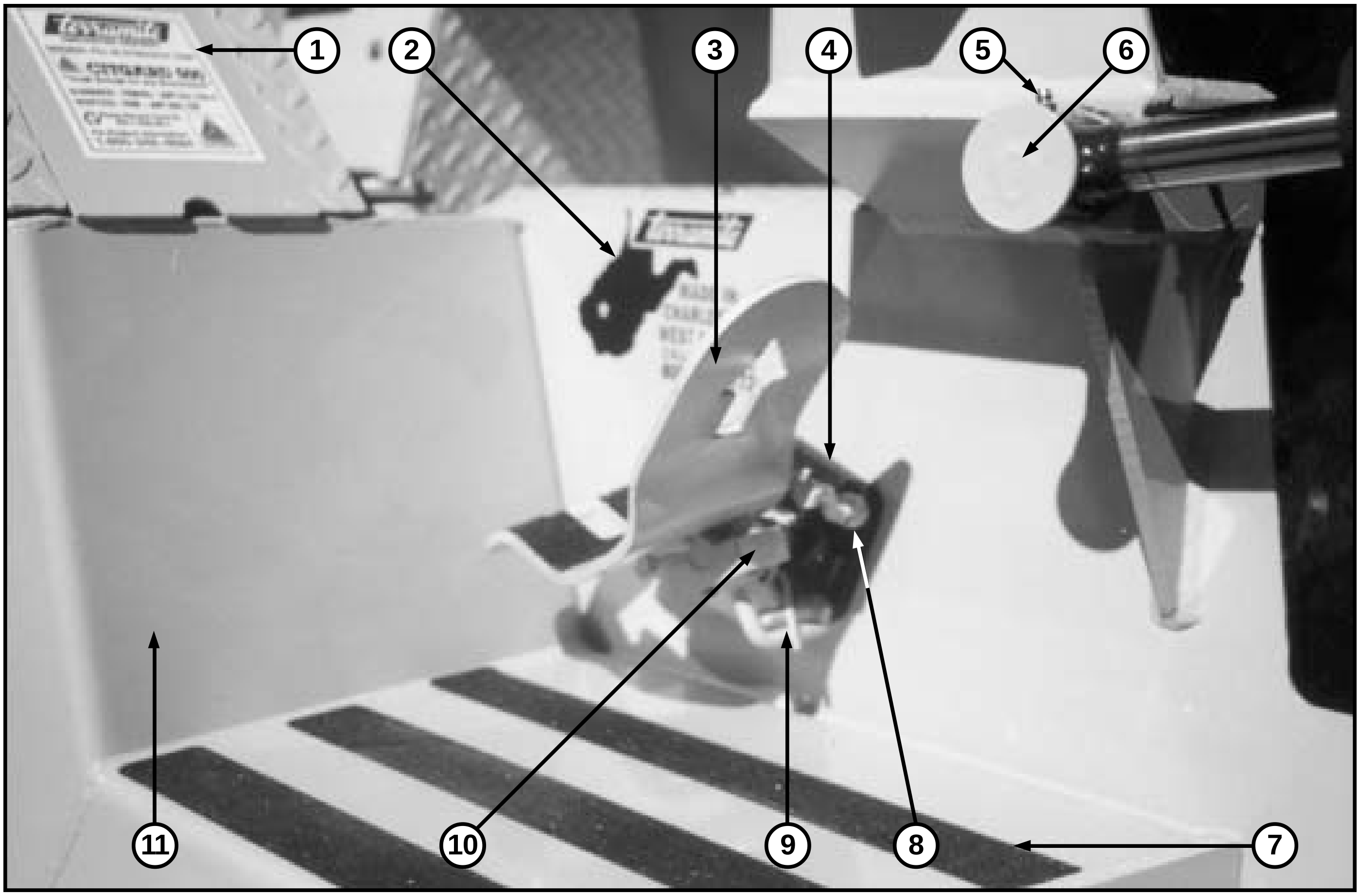
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15046	Lid, Fuel & Oil Tank	2
2	22204	Cap, Hydraulic w/breather	1
3	15074	Tank, Hydraulic Assembly	1
4	14017	Decal, Oil Citgo	1

View from Right Side of Hydraulic Tank



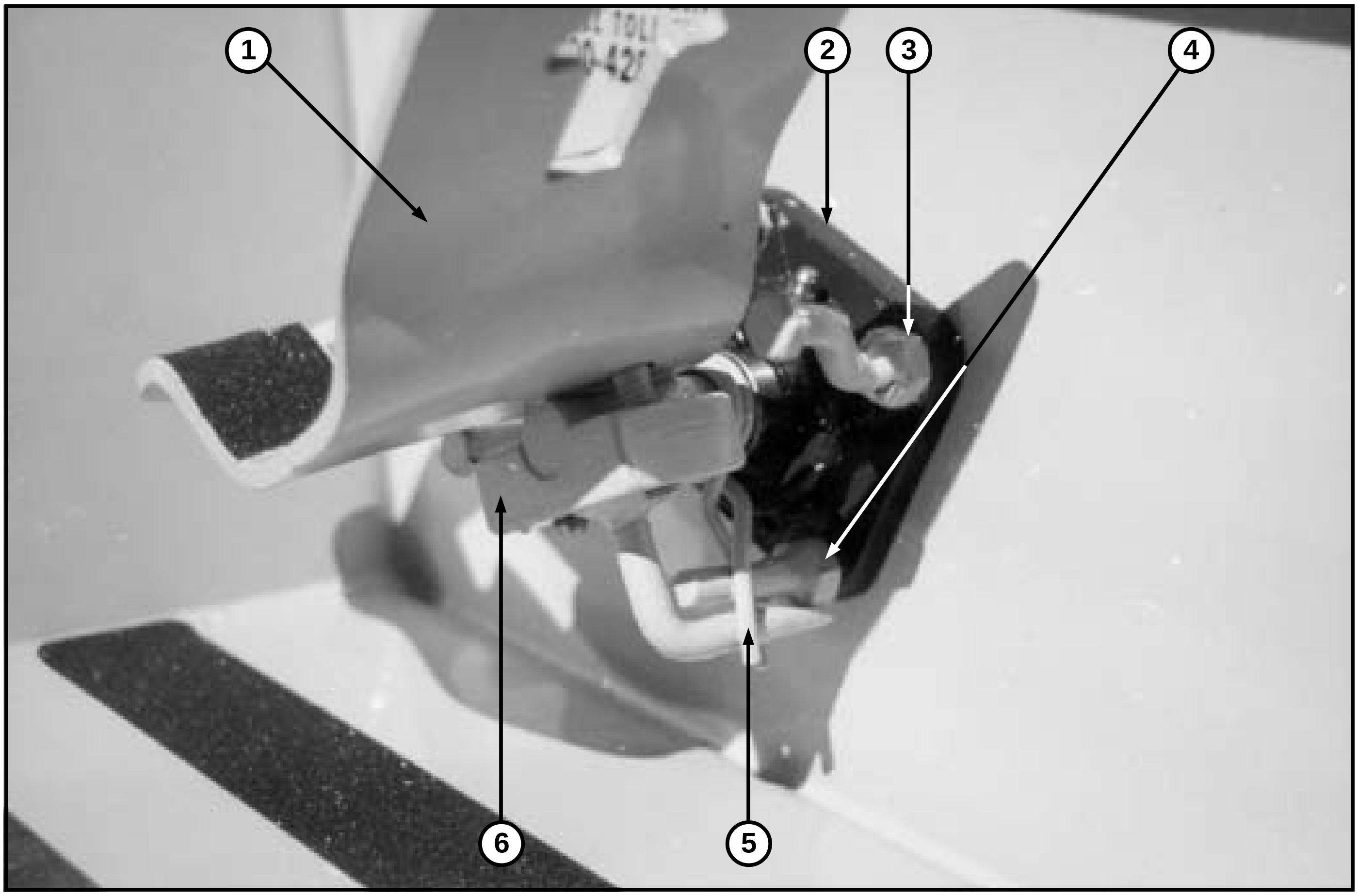
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15036	Tank, Fuel	1
2	15077	Gauge, Fuel, 6 1/2"	1
3	15046	Lid, Fuel & Hydraulic	2
4	11282	Cap, Fuel, Gas - Red	1
	15005	Cap, Fuel, Diesel - Green	
5	14051	Decal, Fuel Only, Diesel	1
	14071	Decal, Fuel Only, Gas	

View from Right of Foot Pedal Control



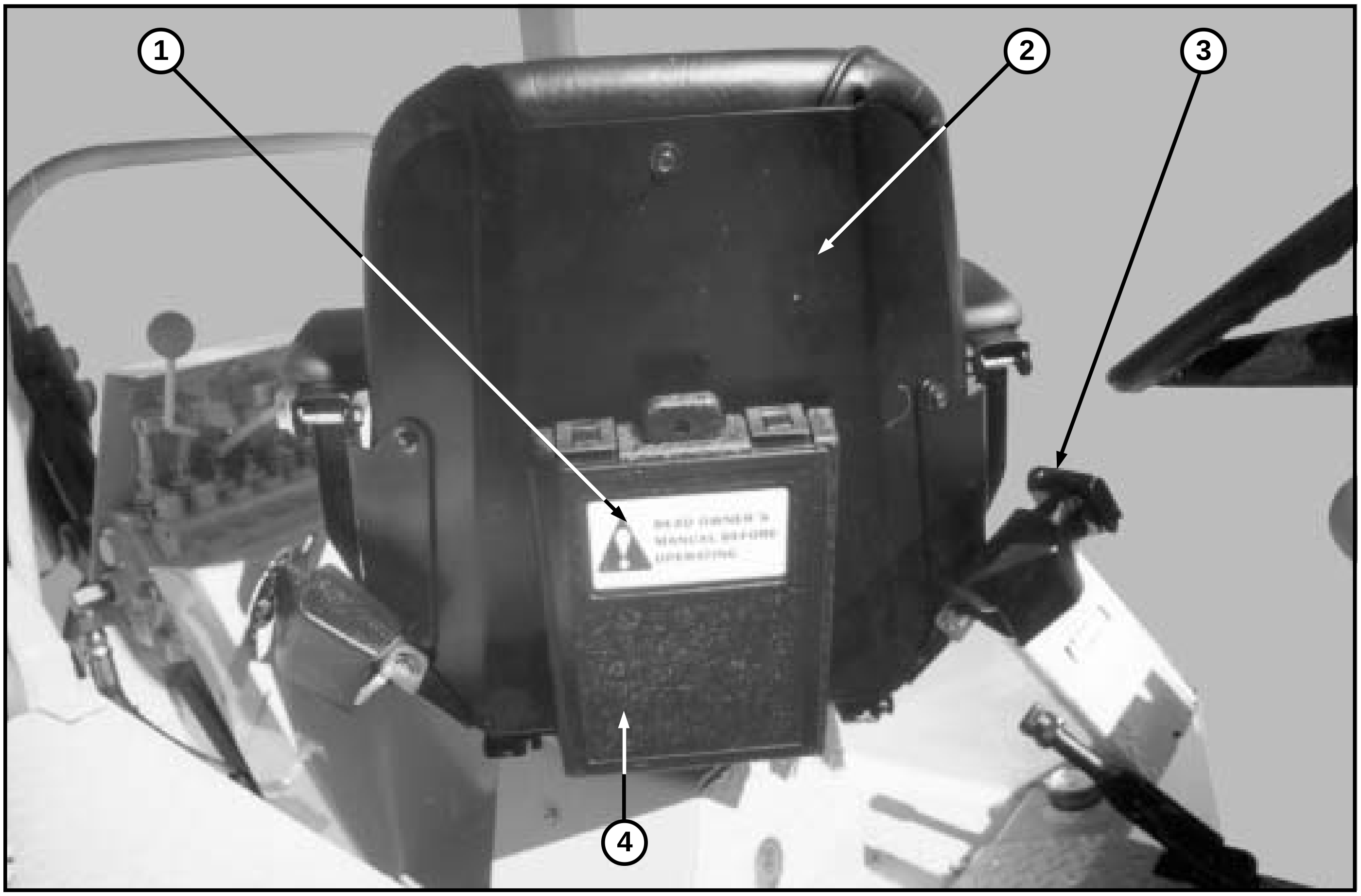
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15046	Lid, Fuel & Hydraulic	1
2	14070	Decal, Made In W.V.	2
3	11600	Foot Pedal	1
4	11627	Bearing, Pillow Block	1
5	21428	Grease Fitting - Straight	28
6	12301	Pin, 7 $^{7}/_{8}$" w/washer Arm Cylinder	2
7	16181	Tape, Skid Tank	1
8	11628	Pedal Stop Bolt	2
9	11629	Spring Centering Bolt	1
10	11610	Pedal Block	1
11	15074	Tank, Hydraulic Assembly	1

View from Right of Foot Pedal Control



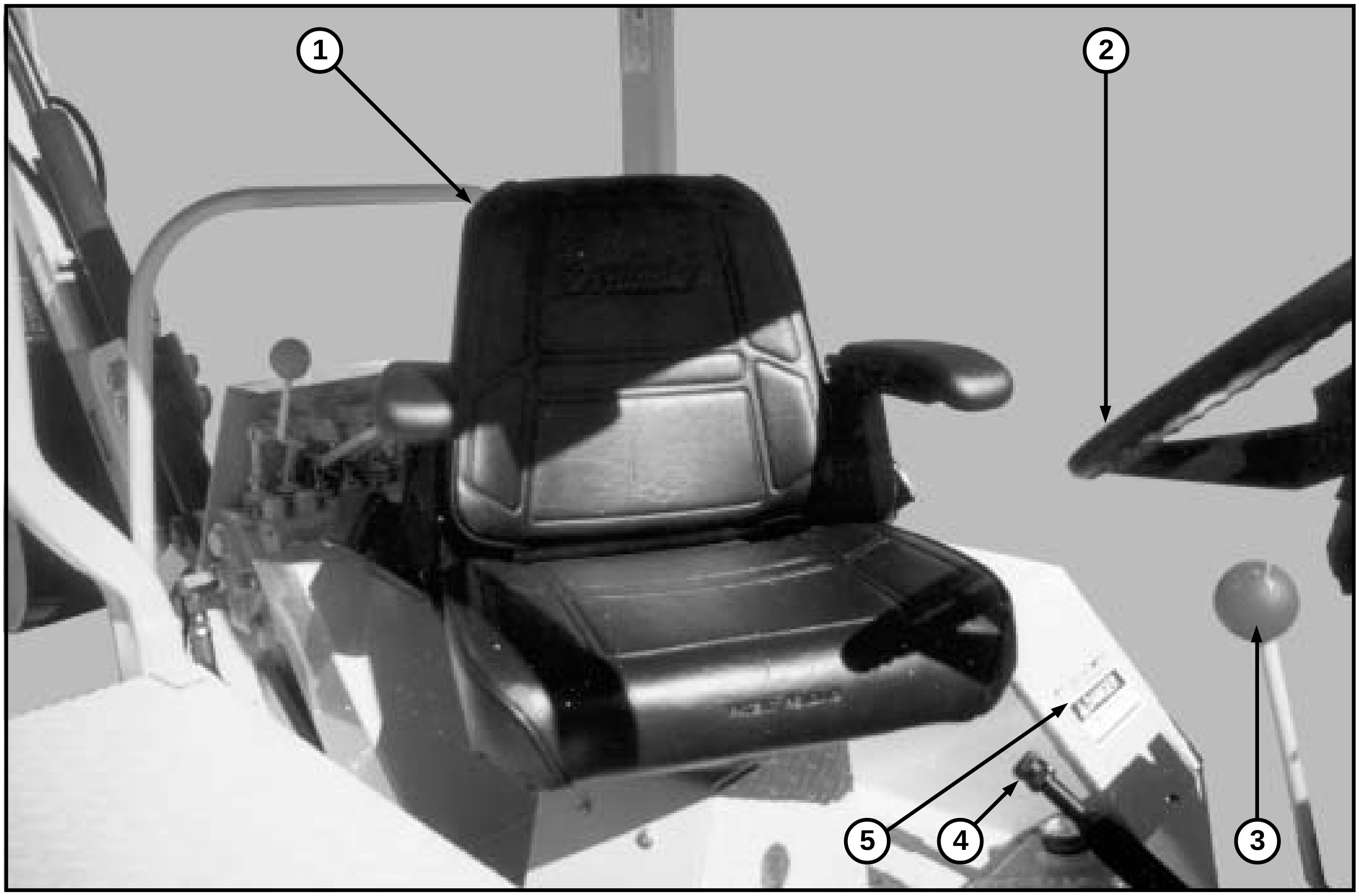
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11600	Foot Pedal	1
2	11627	Bearing, Pillow Block	1
3	11628	Pedal Stop Bolt	2
4	11629	Pedal Centering Bolt	1
5	13029	Pedal Spring	1
6	11610	Pedal Block	1

View of Seat Back



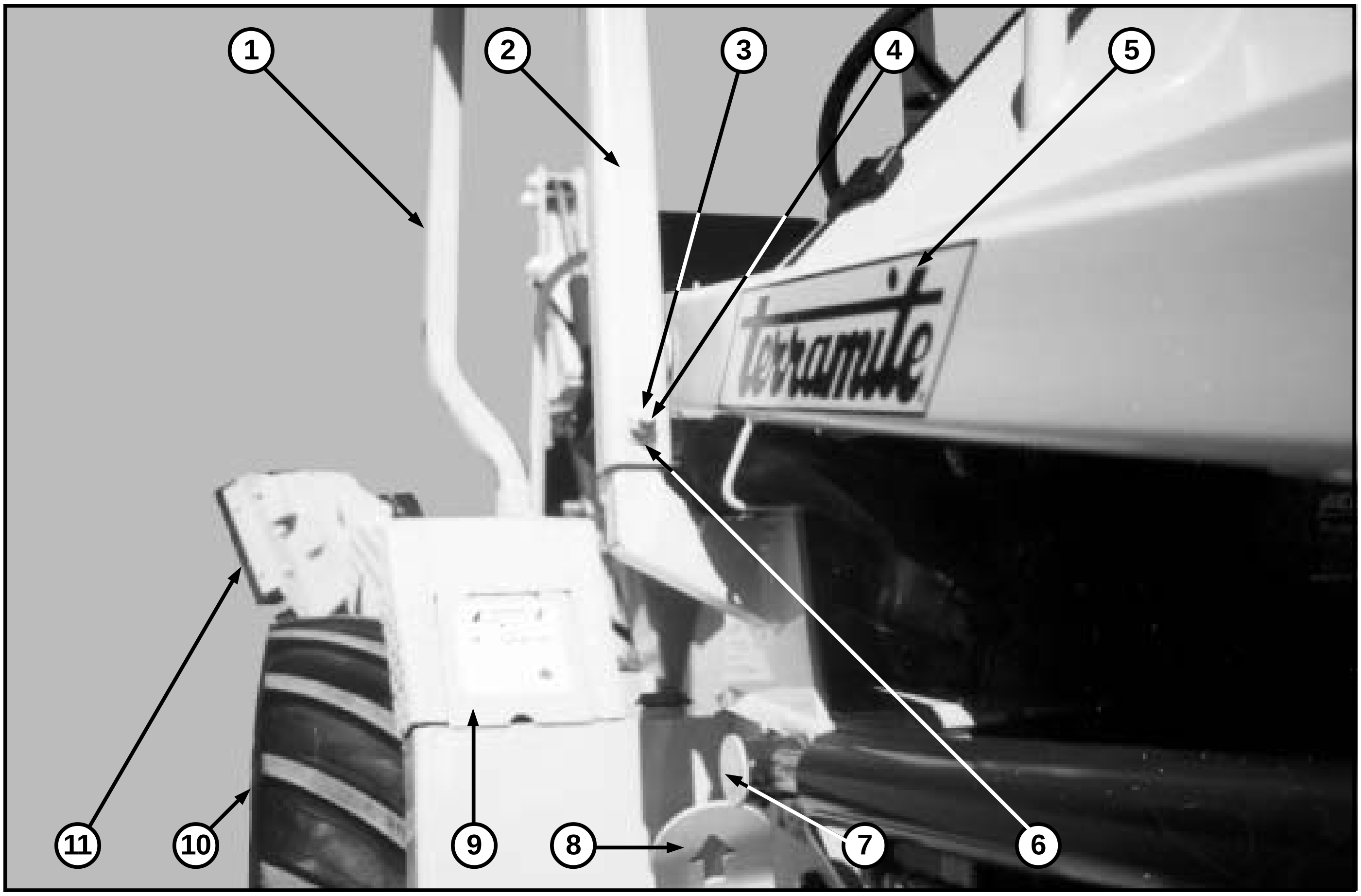
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14046	Decal, Read Owners Manual	1
2	19100	Seat, Assembly T6-T5D	1
3	11903	Safety Belt	1
4	11911	Manual Box	1

View of Seat Front



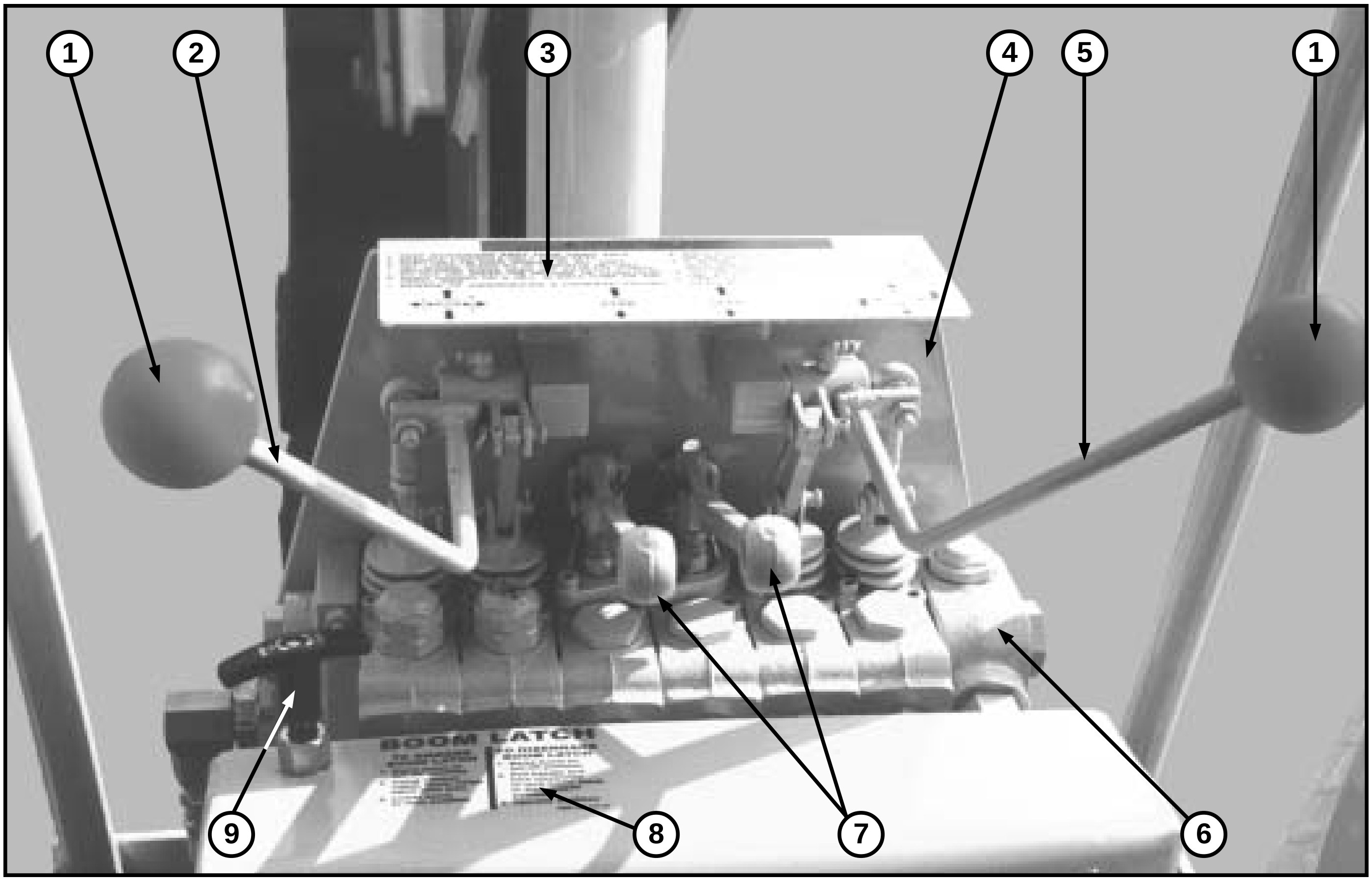
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19100	Seat, Assembly T6-T5D	1
2	13500	Steering Wheel	1
3	13942	Red Knob	4
4	56002	Brake Lever	1
5	14051	Decal, Fuel Only - Gas	1
	14071	Decal, Fuel Only - Diesel	

View of 4 Point ROPS Mount



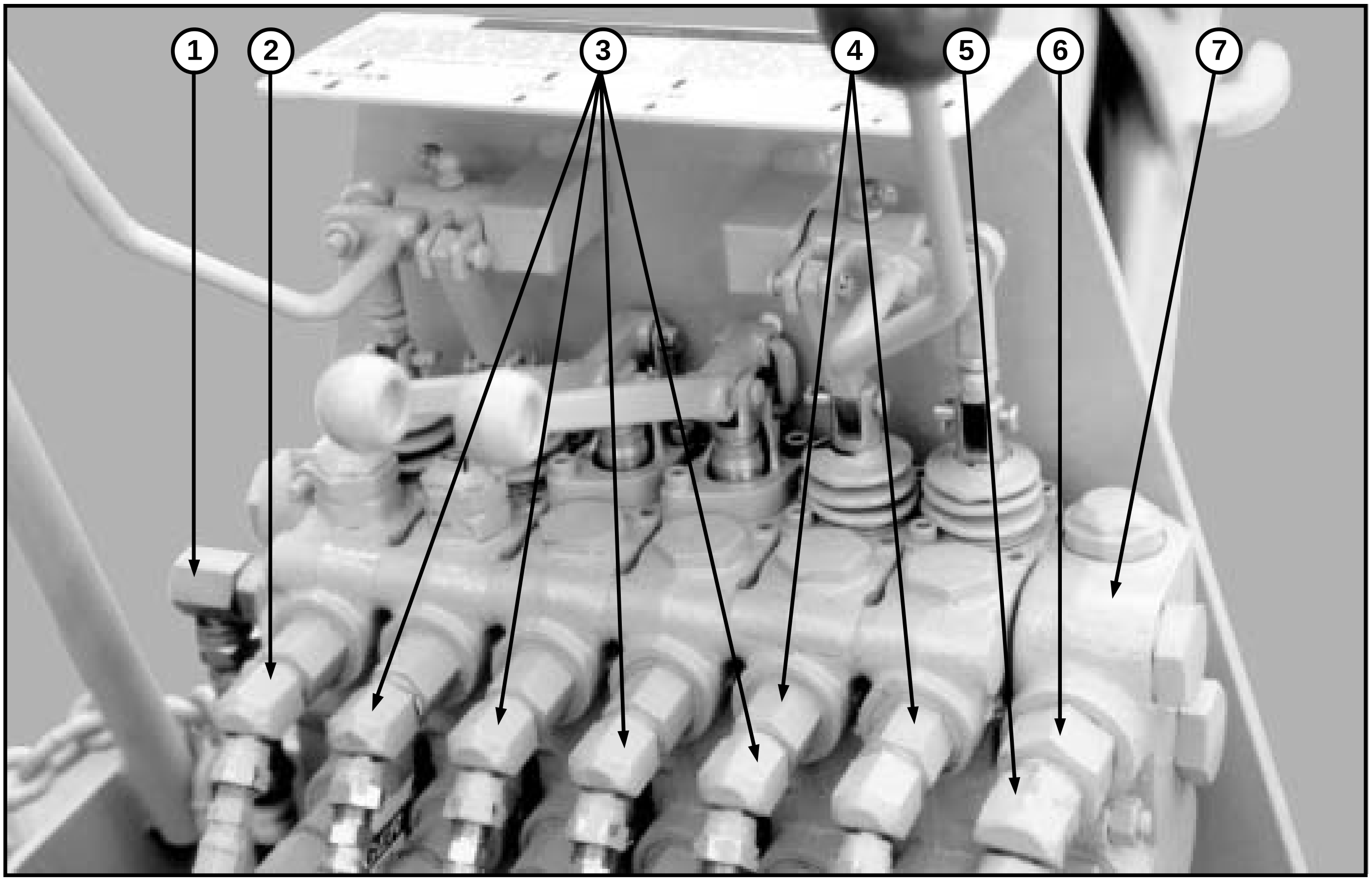
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	18004	Rear Roll Bar	1
2	15425	Front Roll Bar	1
3	28500	Nut, 1/2" Lock	2
4	22021	Bolt, 1/2" x 3" Gr5	2
5	14001	Decal, Large Terramite	4
6	28957	Washer, 7/16" USS	2
7	12301	Pin, 7 7/8" w/washer Arm Lift Cylinder	2
8	11600	Foot Pedal	1
9	15046	Lid, Fuel & Hydraulic	2
10	51731	Tire, 15 x 13 HFT	2
11	11111	Flip Over Pad - Welded	2

View from Operator Position of Rear Valve



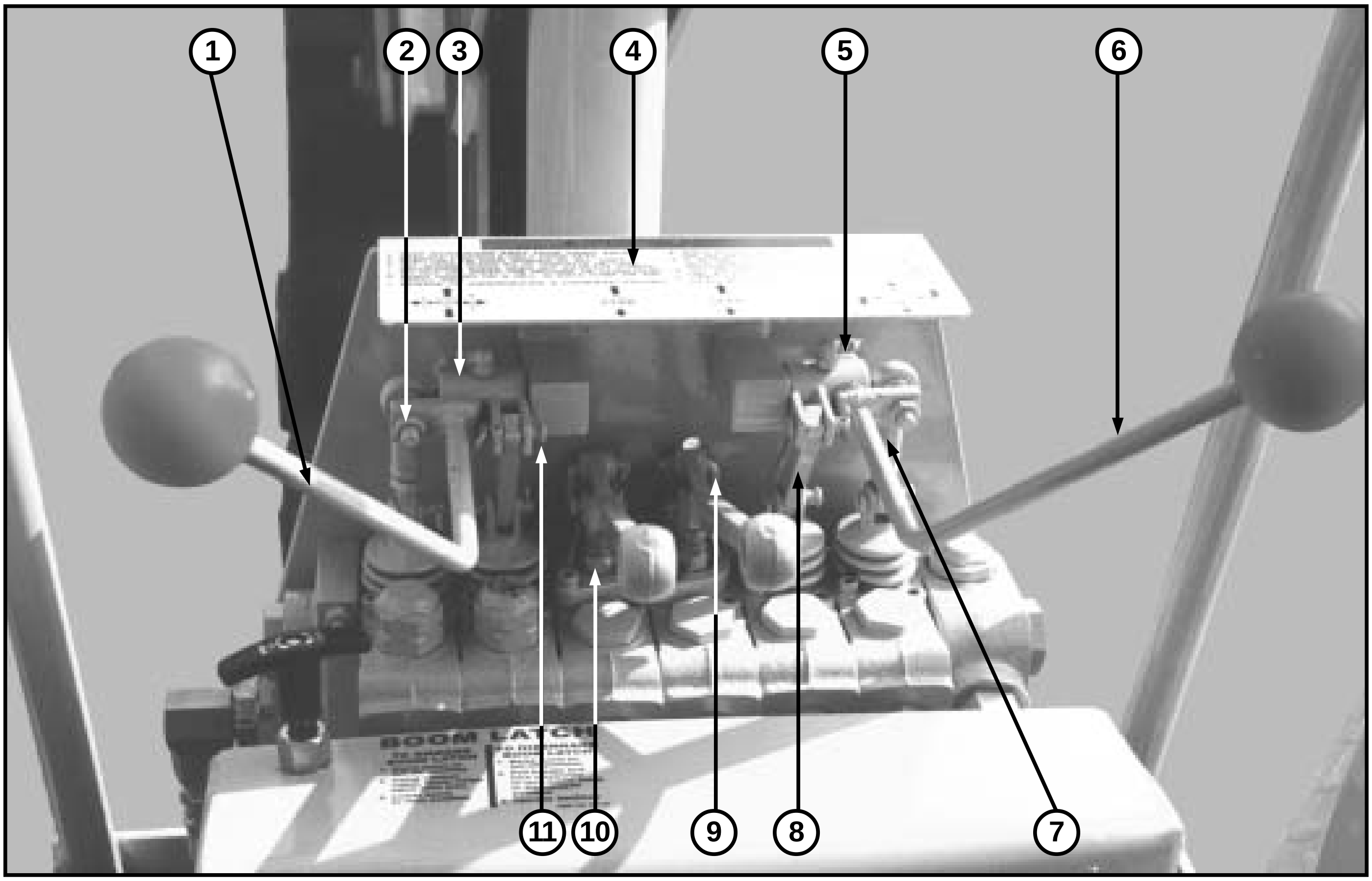
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13942	Knob	2
2	13073	Handle, Wobblestick, Left Rear	1
3	14050	Decal, Wobblestick & Operator Hazard	1
4	13039	Plate, Wobblestick Valve	1
5	13123	Handle, Wobblestick, Right Rear	1
6	13400	Rear Valve Assembly	1
7	13431	Handle, Outrigger (Wobblestick)	2
8	14112	Decal, Boom Latch	1
9	13135	T-Handle, Cable-Boom Latch Control	1

View of 4 Point ROPS Mount



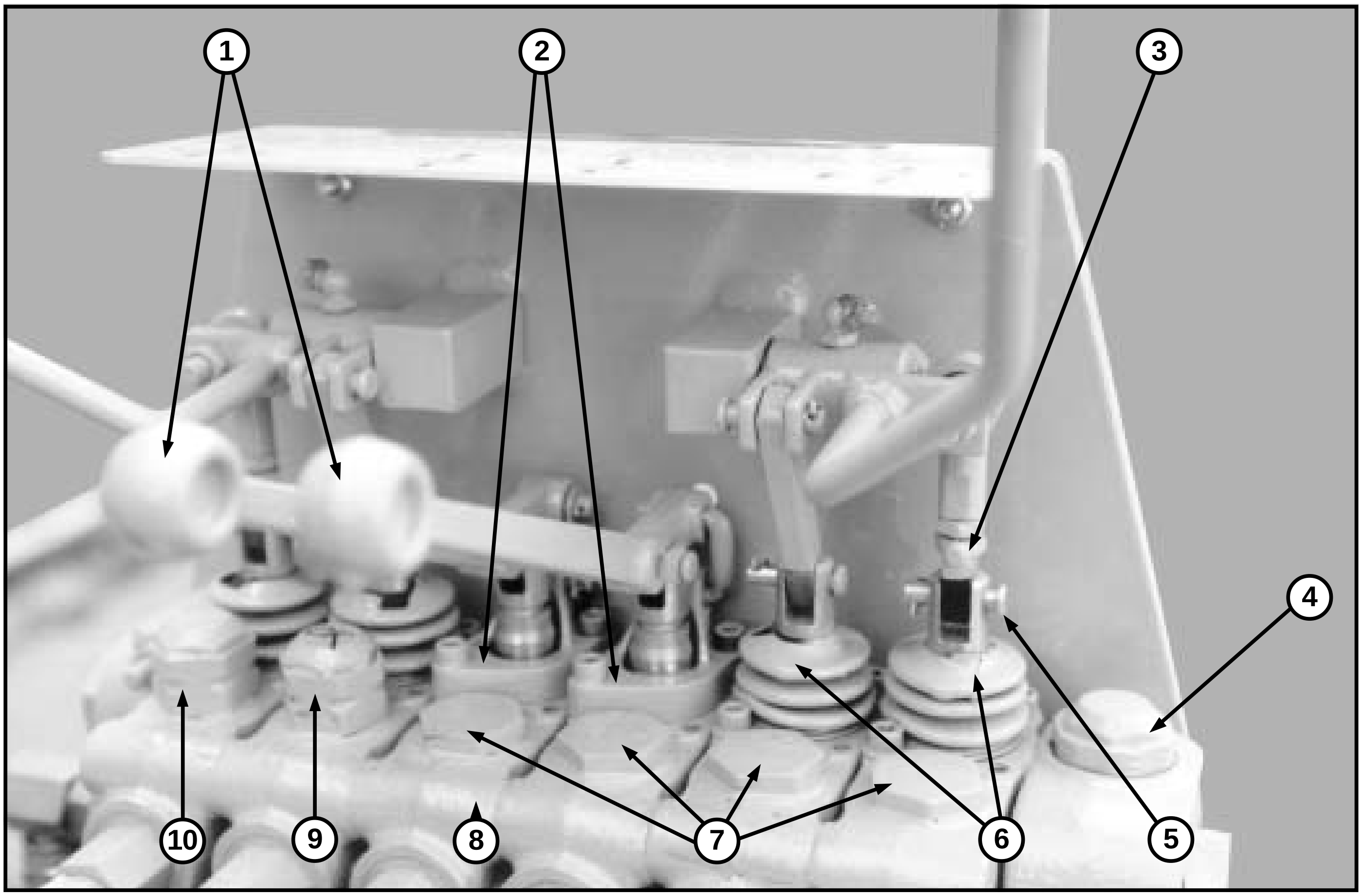
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	25718	Fitting, #10 x 1/2" x 90°	1
2	21765	Fitting, Restrictor	4
3	21764	Fitting, 3/4" x 1/4" x 45°	8
4	25286	Fitting, #8 x 6" adaptor	12
5	21788	Fitting, #8 x 1/2" x 45°	2
6	25128	Fitting, #12 x 8" adaptor	2
7	13400	Rear Valve Assembly	1

View from Operator Position of Rear Valve



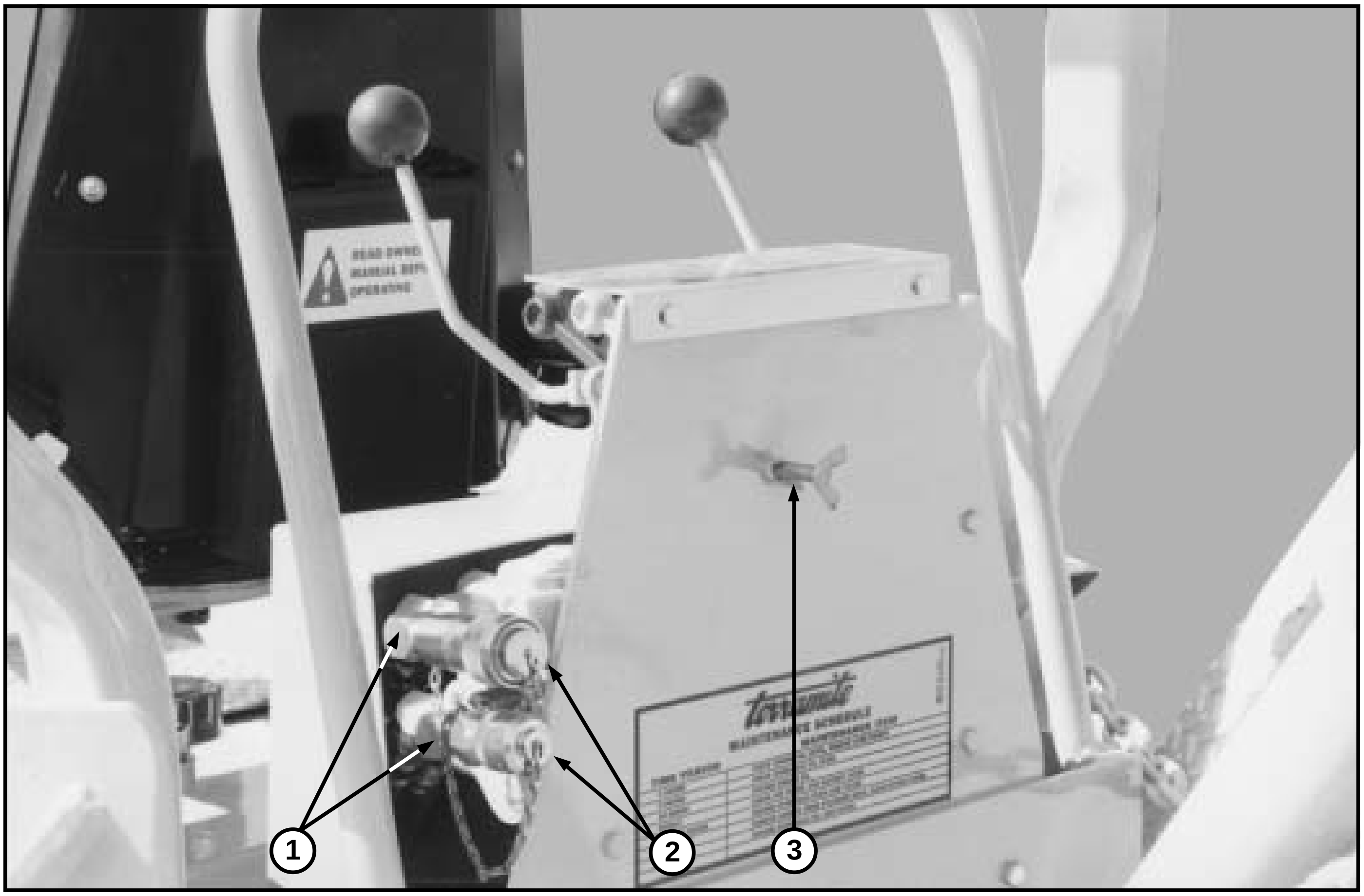
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13073	Handle, Wobblestick, Left Rear	1
2	25500	Nut, 5/16" NF Jam	2
3	13444	Wobblestick Pivot Block, Left Rear	1
4	14050	Decal, Wobblestick & Operator Hazard	1
5	13445	Wobblestick Pivot Block, Right Rear	1
6	13123	Handle, Wobblestick, Right Rear	1
7	13965	Linkage	3
8	13443	Connecting Link	2
9	13411	Valve Link	3
10	13410	Aluminum Valve Handle Bracket	2
11	13418	Pin, Valve Hose Link Pivot	8

View from Operator Position of Rear Valve



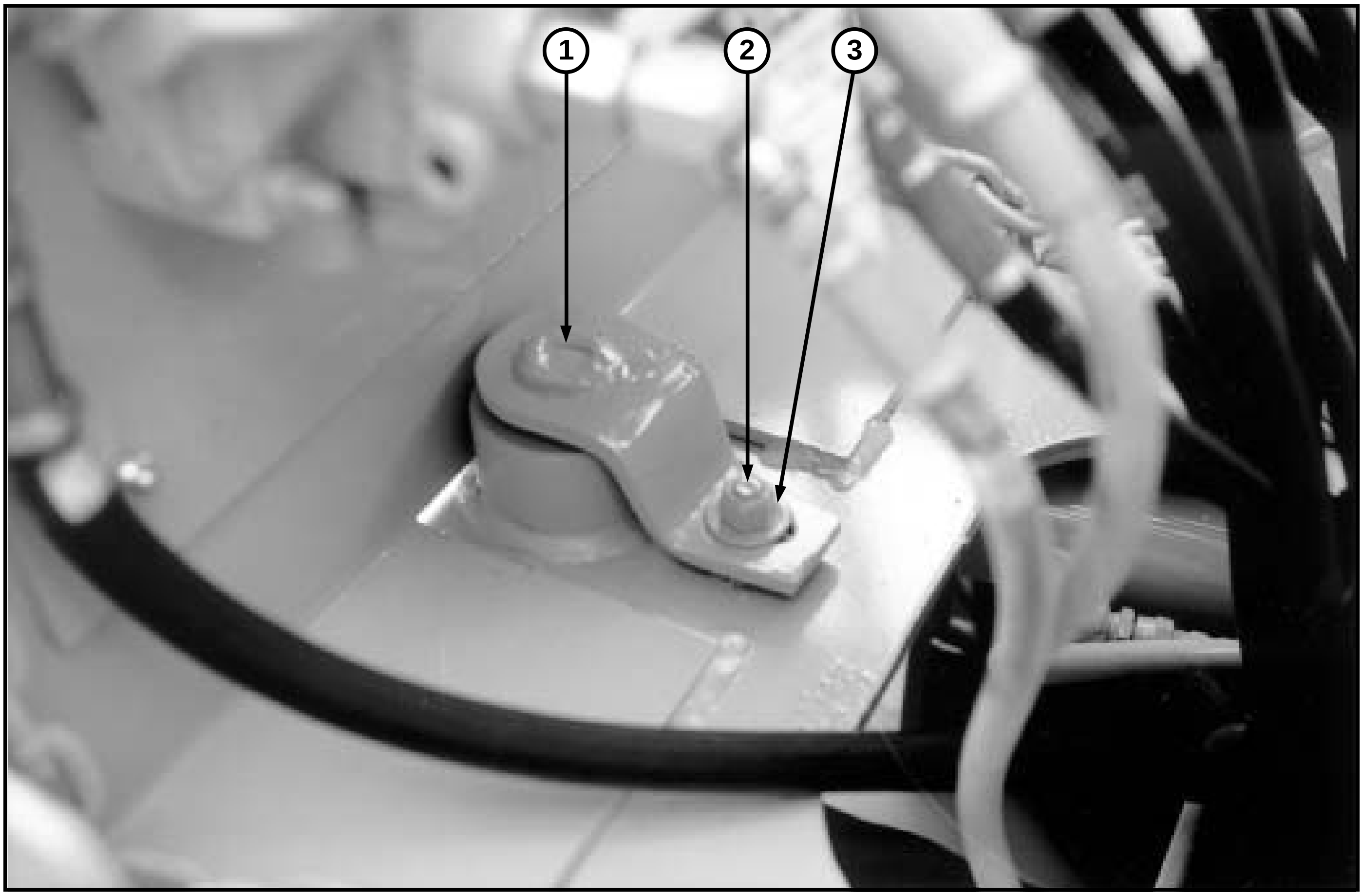
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13431	Handle, Outrigger T5C with Wobblestick Controls	2
2	13410	Aluminum Valve Handle Bracket	2
3	16410	Eye Bolt	2
4	13429	Main Relief Rear Valve	1
5	13418	Pin, Valve Hose Link Pivot	8
6	13423	Valve Boot Spool Protector	4
7	13401	Load Check Plug Assembly	9
8	13400	Rear Valve Assembly	1
9	13456	Port Relief 2600#	1
10	13454	Port Relief 2000#	2

View from Right Rear



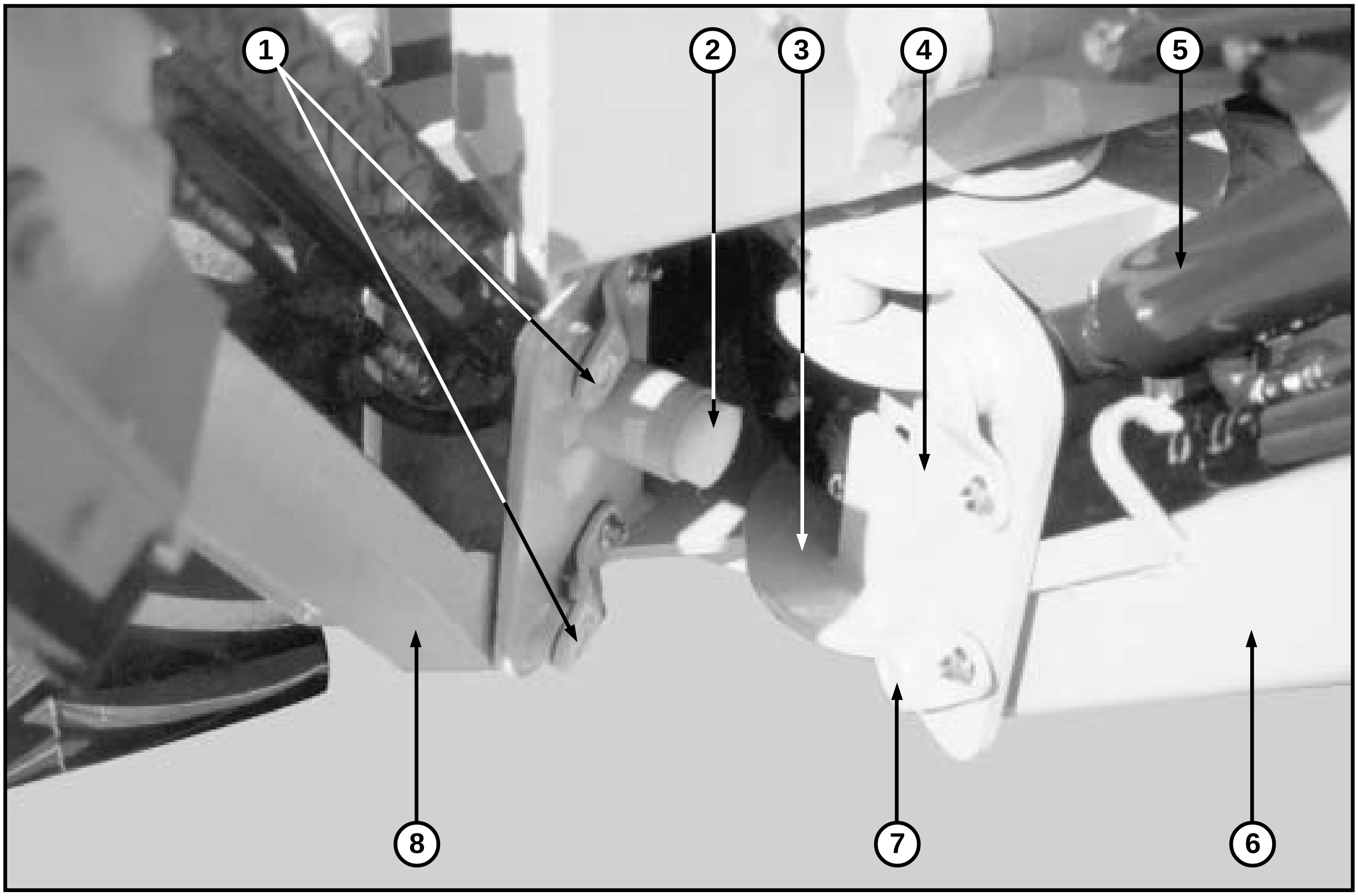
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	21188	Fittings, 1/2" x 90°	2
2	28890	Power Beyond. Kit	1
3	26485	Power Beyond Wing Nut	1

View from Below Rear Valve of Main Swing Pin



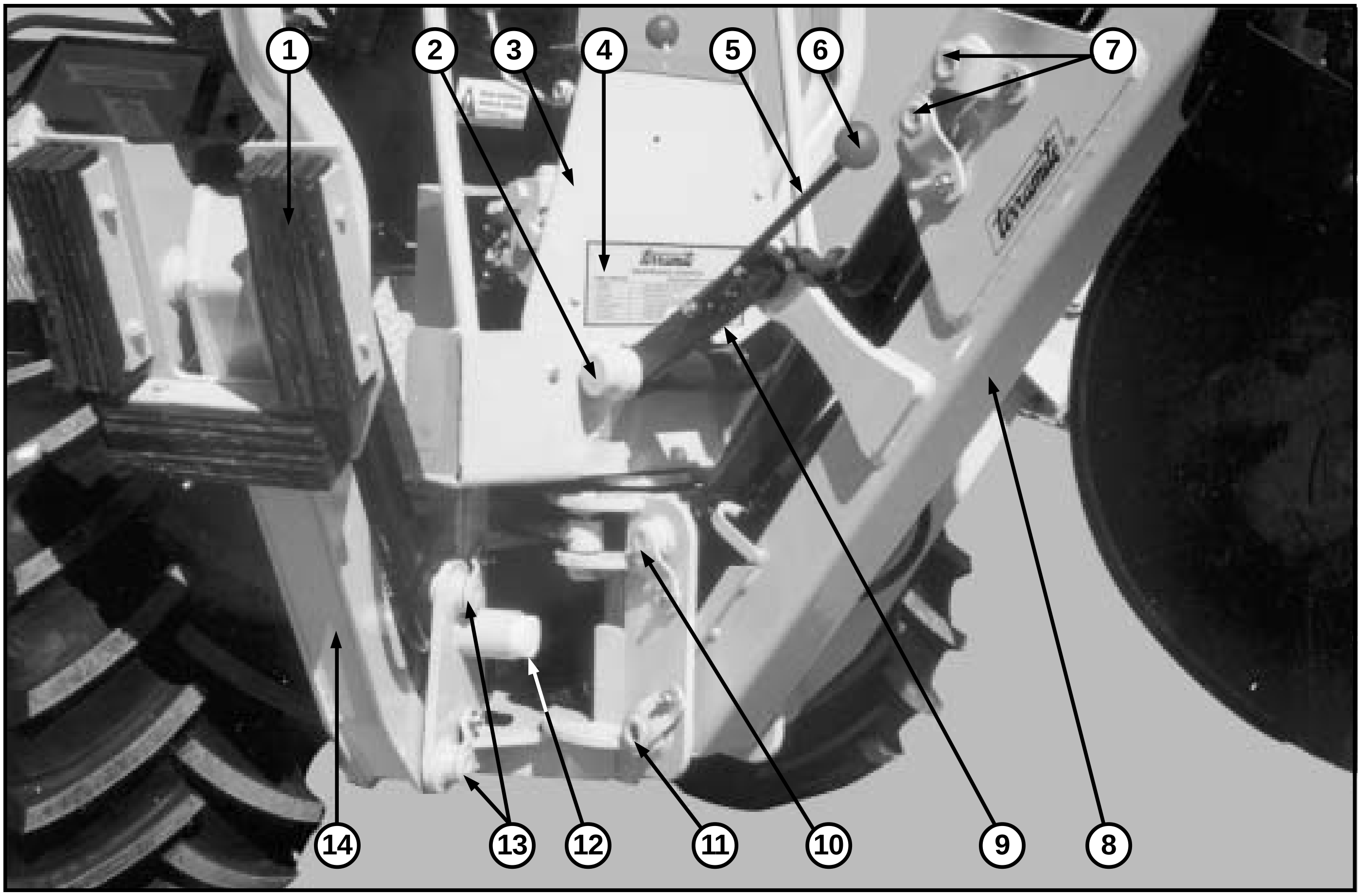
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11140	Pin, Main Swing	1
2	28500	Nut, 1/2" NC Lock	1
3	28950	Washer	1

View from Left of Rear Swing Assembly



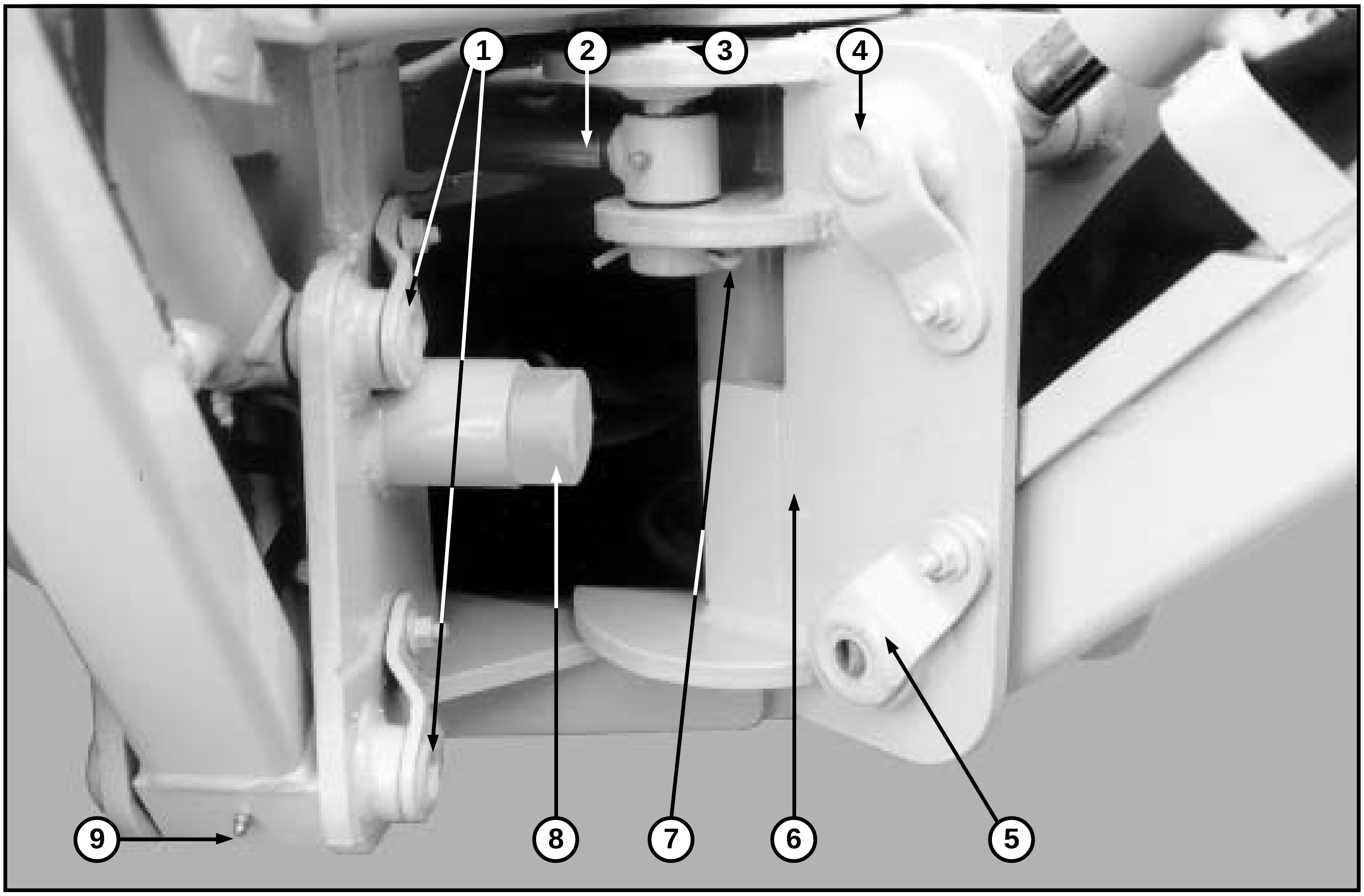
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11100	Pin, 6 1/4" x 1"	6
2	11006	Swing Stops	2
3	11300	Swing Assembly	1
4	10410	Pin, 7 3/4" x 1"	1
5	21200	Cylinder, Boom	1
6	10185	Boom, T5D	1
7	10400	Pin, 1 1/4" x 8 1/4"	2
8	11112	Outrigger, Flip Over	2

View from Right Side of Backhoe



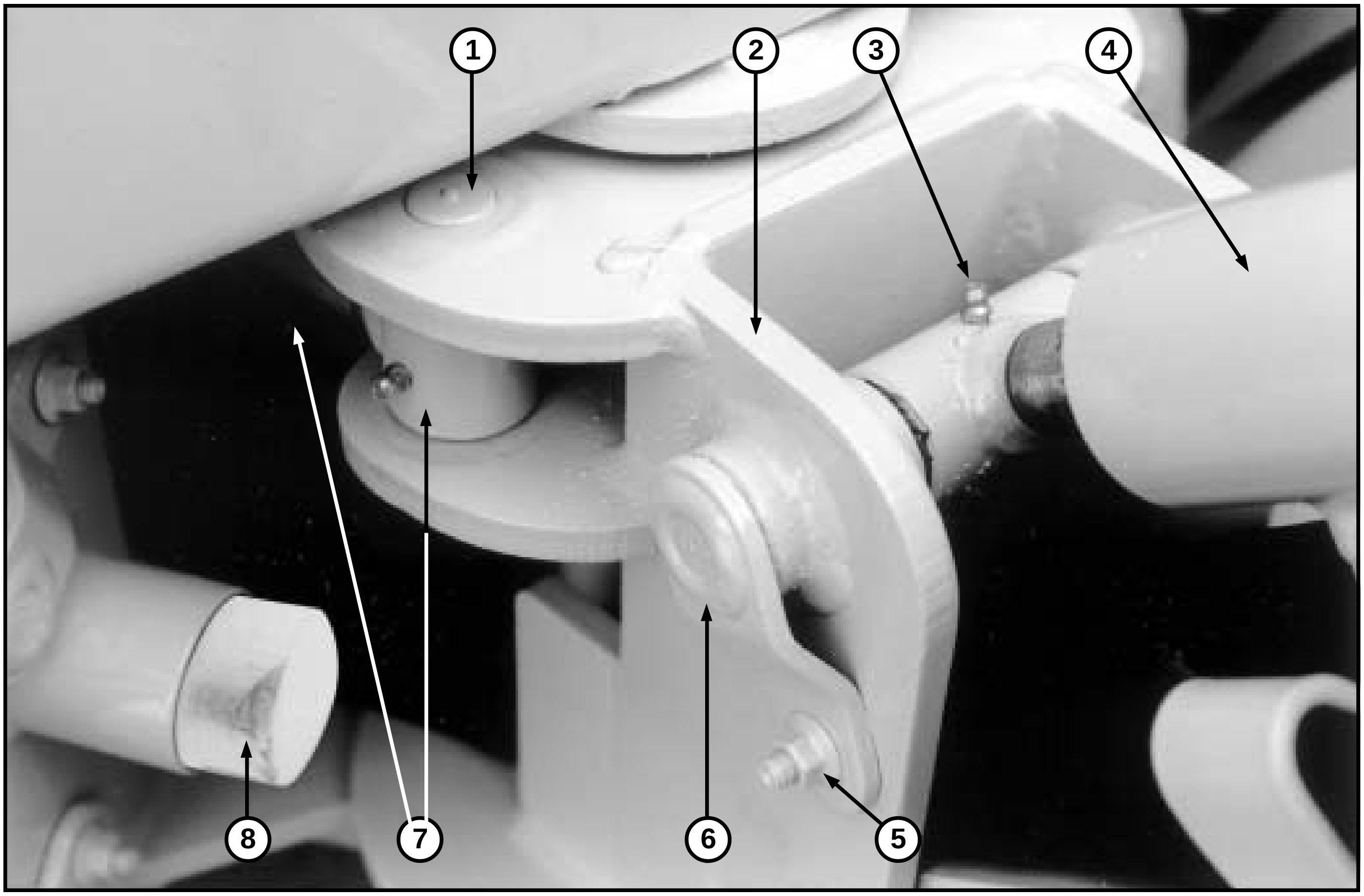
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11111	Flip Over Pad - Welded	2
2	10184	Boom Lock - Welded	1
3	13058	Plate, Rear Valve T5D	1
4	14005	Decal, Maintenance, Gasoline	1
	14510	Decal, Maintenance, Diesel	
5	10193	Boom Lock - Handle	1
6	13942	Knob Red	4
7	11100	Pin, 6$^{1}/_{4}$" x 1"	6
8	10185	Boom, T5D	1
9	10184	Boom Lock - Brace, Welded	1
10	10410	Pin, 7$^{3}/_{4}$" x 1"	1
11	10400	Pin, 8$^{1}/_{4}$" x 1$^{1}/_{4}$"	1
12	11006	Plastic Swing Stops	2
13	11100	Pin, 6$^{1}/_{4}$" x 1"	6
14	11112	Outrigger, T5D	2

View from Right Side of Swing Assembly



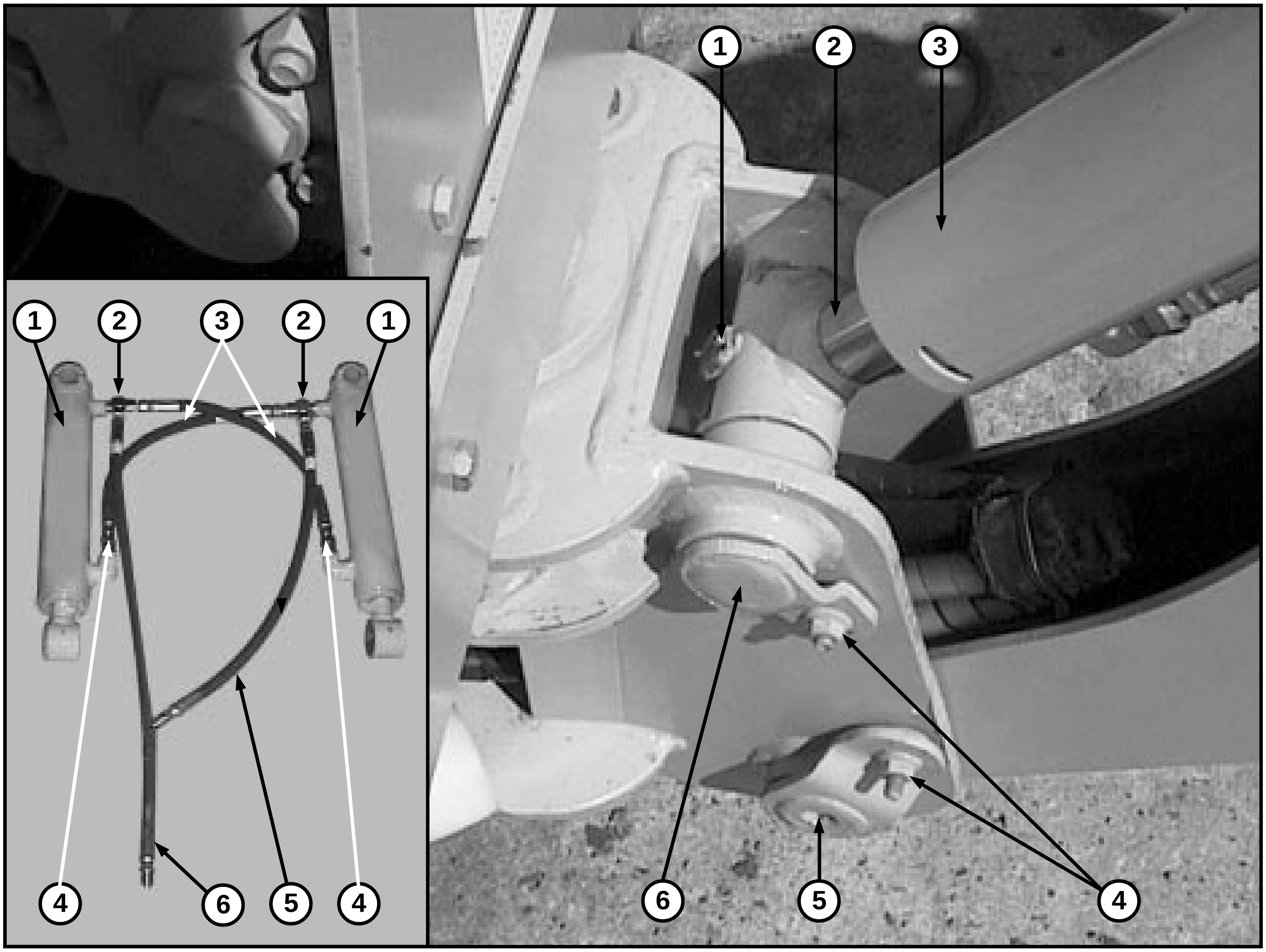
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11100	Pin, 1" x 6$^{1}/_{4}$"	6
2	25201	Rod, Swing Cylinder	2
3	15300	Pin, 1" x 4$^{1}/_{8}$"	2
4	10410	Pin, 1" x 7$^{3}/_{4}$"	1
5	10400	Pin, 1$^{1}/_{4}$" x 8$^{1}/_{4}$"	2
6	11300	Swing Assembly	1
7	21420	Cotter Pin	2
8	11006	Swing Stop	2
9	21428	Fitting, Grease	32

View from Right Side Top of Swing Assembly



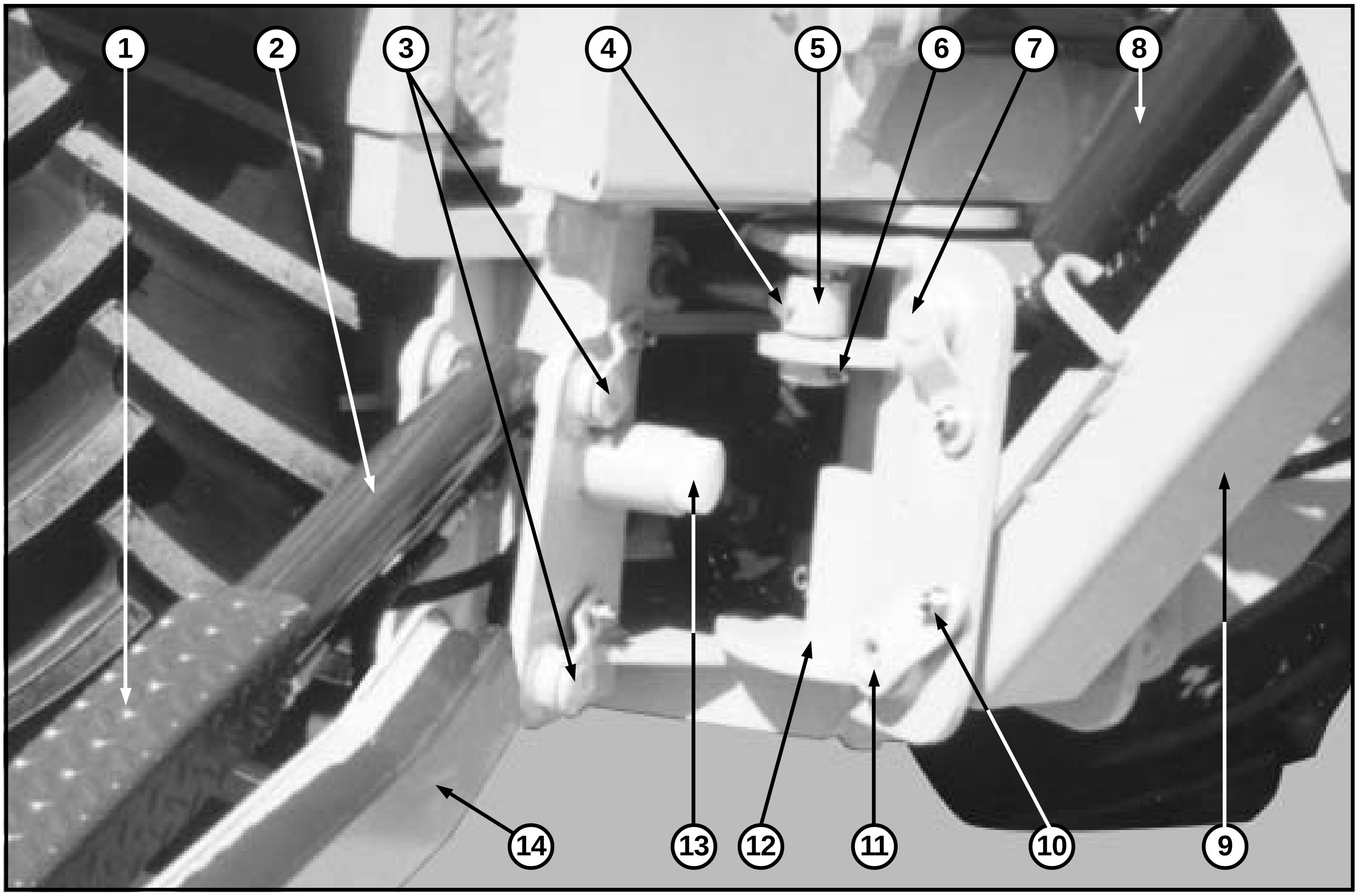
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15300	Pin, 1" x 4 1/8"	2
2	11300	Swing Assembly	1
3	21428	Fitting, Grease	32
4	21200	Boom Cylinder	1
5	20082	Nut, 3/8" NC	24
6	10410	Pin, 1" x 7 3/4"	1
7	25201 12019	Rod, Swing Cylinder	1
8	11006	Plastic Swing Stops	2

View from Right Side Top of Swing Assembly



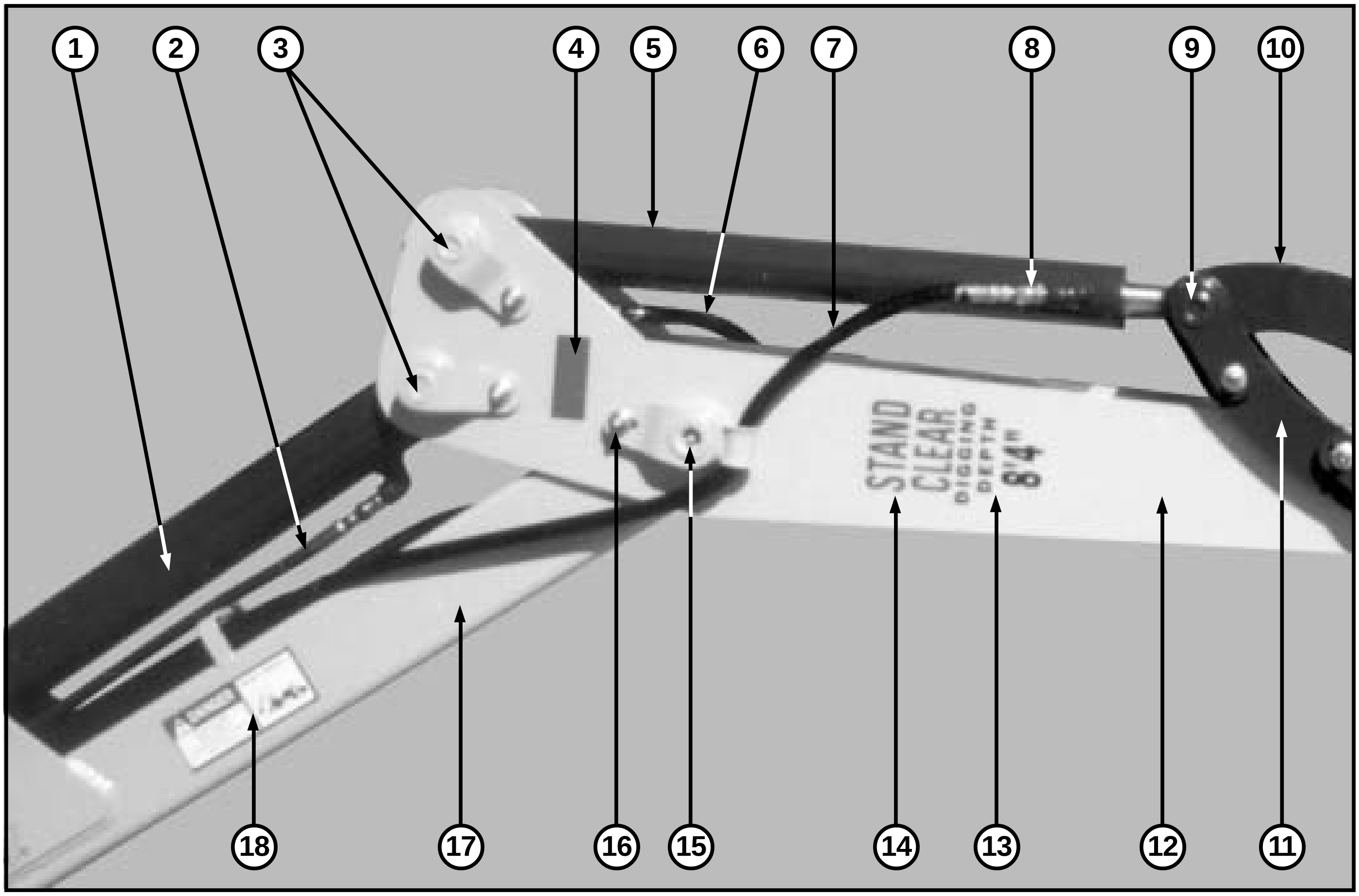
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	21428	Fitting, Grease, 1/4"-28 Straight	32
2	21206	Rod, Boom & Crowd	2
3	81027	Boom/Crowd Cylinder	2
4	20082	Nut, 3/8" NC Flange	24
5	10406	Pin, 1 1/2" x 8 1/4"	1
6	10410	Pin, 1 1/4" x 7 3/4"	1
INSET - SWING CYLINDER SUB-ASSEMBLY			
1	82070	Cylinder Assembly, Swing W/Tee Fitting	2
2	20025	Fitting - 90° Tee	2
3	80045	Hose, 1/4" Swing Crossover, 15"	2
4	20174	Fitting, Straight 1/4" Swivel	2
5	88420	Hose, 1/4" Swing to Valve, 20"	1
6	88425	Hose, 1/4" Swing to Valve, 25"	1

View from Front of Loader Bucket



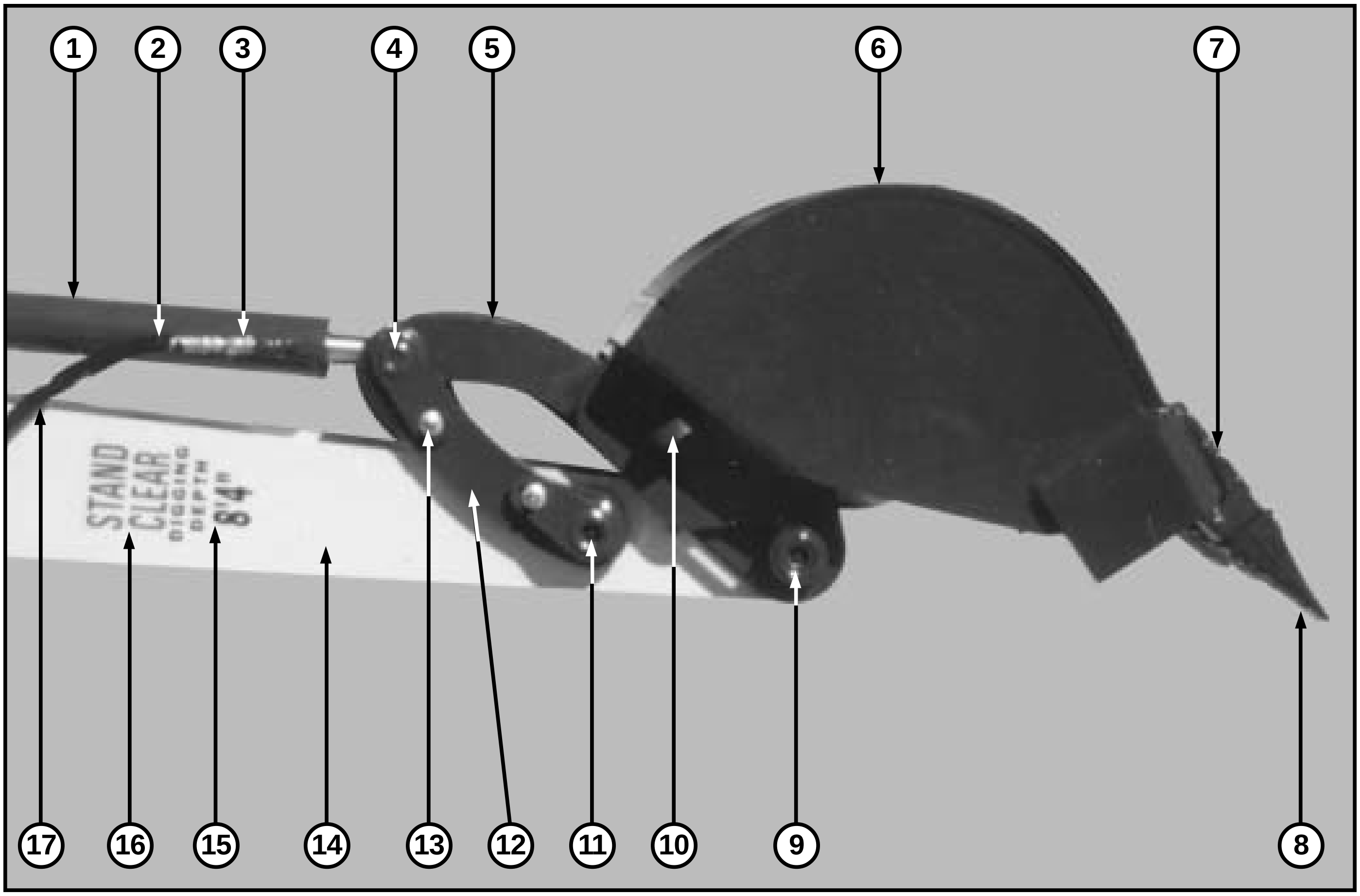
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11123	Guard, Outrigger Cylinder	2
2	81139	Cylinder, Outrigger	2
3	11100	Pin, 6 1/4" x 1"	6
4	21428	Fitting, Grease 1/4"-28 Straight	32
5	81132	Cylinder, Swing T5C	2
6	21420	Pin, Cotter	2
7	10410	Pin, 7 3/4" x 1 "	1
8	21200	Cylinder, Boom T5C	1
9	10185	Boom, Assembly T5D	1
10	20082	Nut, 3/8" NC Flange	24
11	10400	Pin, 8 1/4" x 1 1/4"	1
12	11300	Swing, Assembly T5C	1
13	11006	Plastic Swing Stops	2
14	11112	Outrigger, Assembly - Flip Over	2

View from Right Side of Boom Assembly



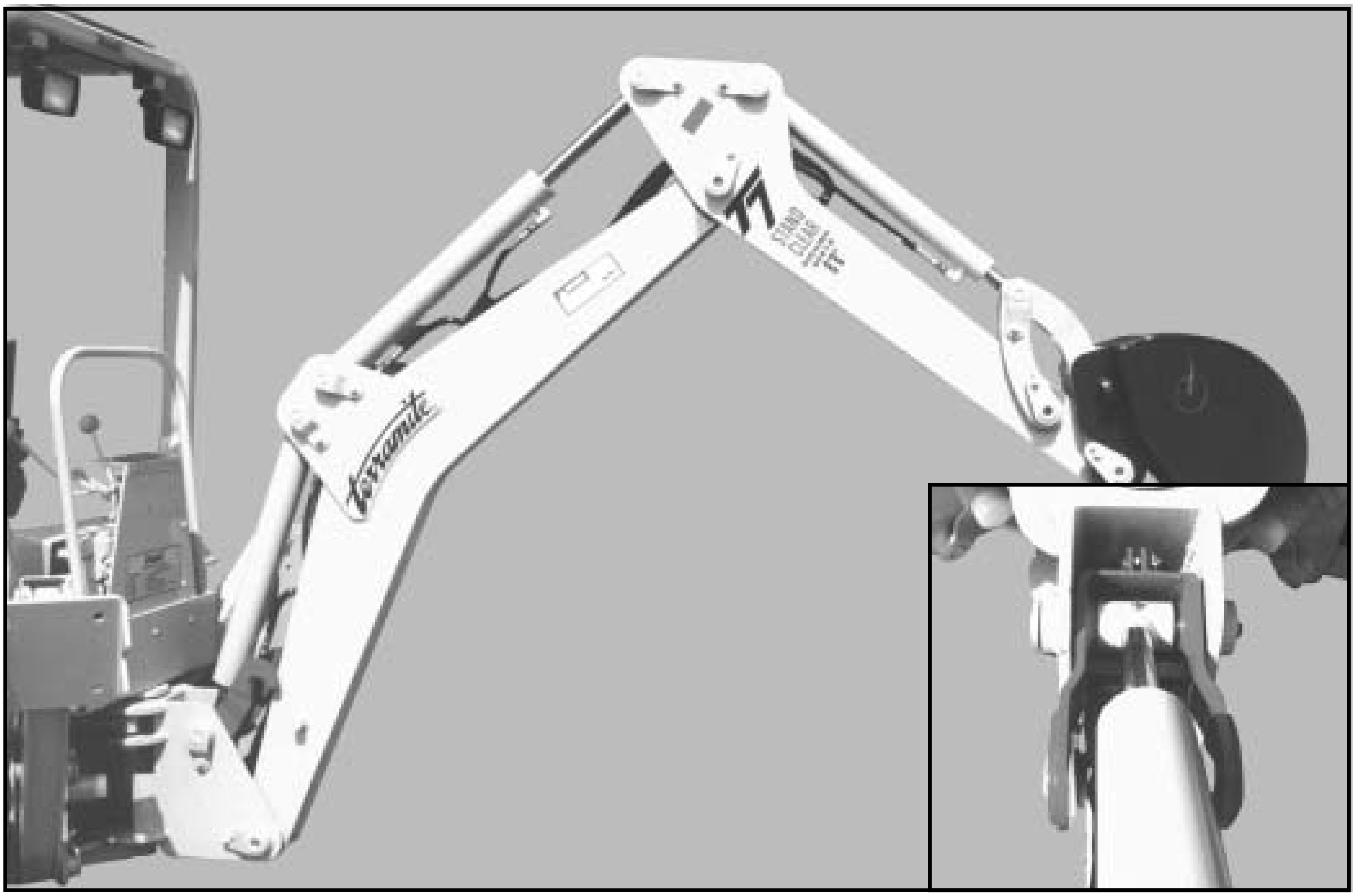
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	21000	Crowd Cylinder T5C	1
2	88492	Hose, 1/4" x 92"	1
3	10700	Pin, 6 7/8" x 1"	2
4	14022	Reflect, Tape Red	2
5	10350	Cylinder, Rear Curl	1
6	80039	Hose, 1/4" x 115"	1
7	80040	Hose, 1/4" x 118"	1
8	20174	Fitting, 1/4m x 1/4fm swivel	22
9	17031	Pin, 7 3/8" x 1" - Tapped	1
10	18240	Linkage Center - Welded	1
11	18260	Linkage Banana Ears	1
12	18270	Linkage Dipper T5C	1
13	14226	Decal, Digging Depth 8'-4"	2
14	14004	Decal, Stand Clear	4
15	10701	Pin, 7 1/4" x 1 1/4"	1
16	20082	Nut, 3/8" NC Flange	25
17	10185	Boom, Assembly T5D	1
18	14054	Decal, Warning Crush Hazard	2

View from Right Side of Rear Bucket



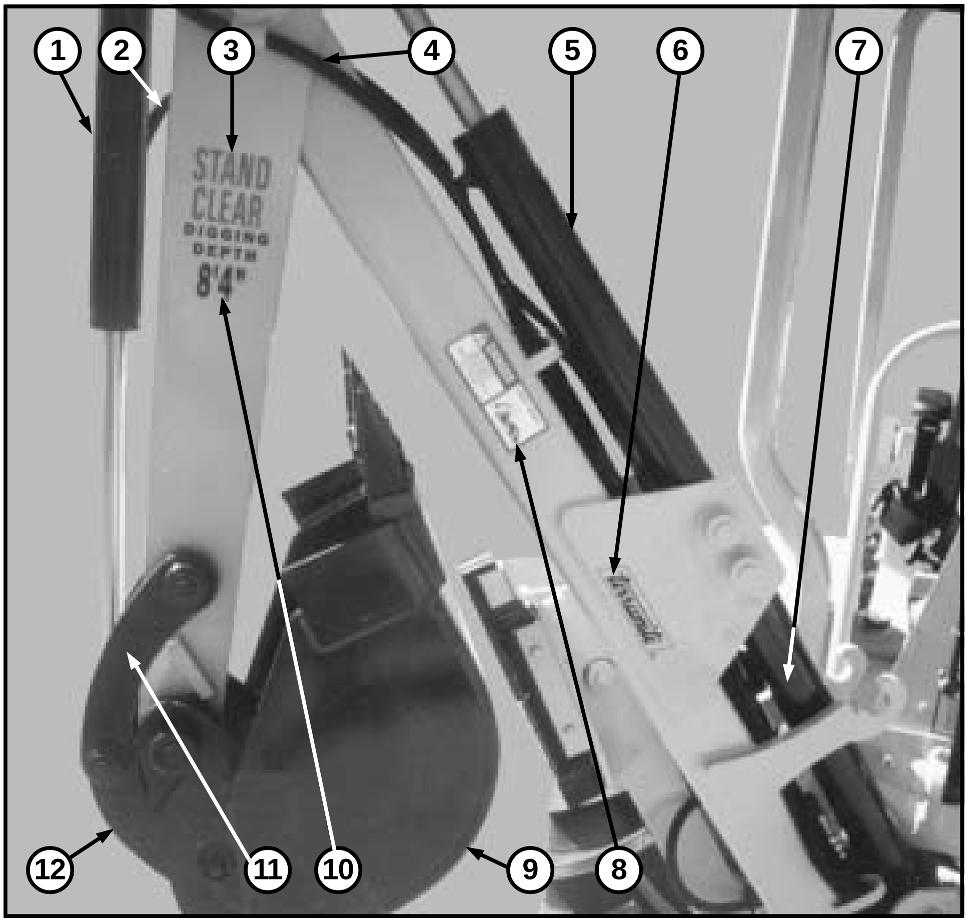
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	10350	Cylinder, Rear Curl	1
2	80040	Hose, 1/4" x 118"	1
3	20174	Fitting, 1/4" m x 1/4" fm swivel	22
4	17031	Pin, 7 3/8" x 1" - Tapped	1
5	18240	Linkage, Center Assembly	1
6	11160	Bucket, Assembly 16" - Quick Attach	1
7	10510	Tooth Shank, Weld On	N/A
8	10500	Tooth Cap	N/A
9	10402	Pin, 10 1/4" x 1 1/4" w/gft	1
10	10200	Pin, 7 5/8" x 1" Drill Offset	
11	10812	Pin, 7 3/8" x 1 1/4" - Tapped	1
12	18260	Linkage, Banana Ear, Left-Welded	1
13	20082	Nut, 3/8" NC Flange	25
14	18270	Linkage, Dipper T5C	1
15	14226	Decal, Digging Depth	2
16	14004	Decal, Stand Clear	4
17	80011	Wrap, Hose Plastic 1/2" O.D. (Shown Installed on 1/4" x 118" Hose)	43"

View from Right Side of Curved Boom Assembly



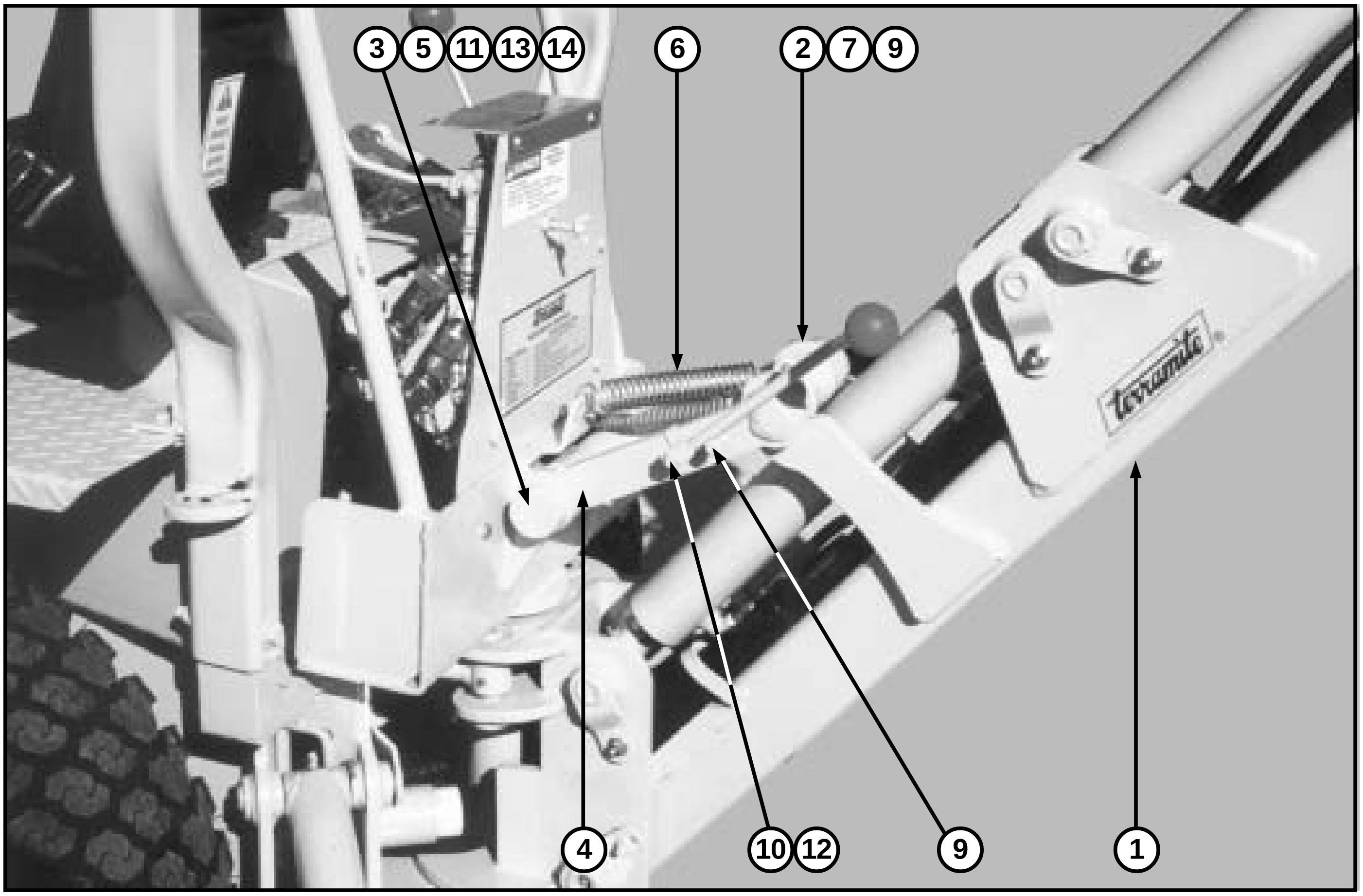
ITEM	PART NUMBER	DESCRIPTION	QTY.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

View from Left Side of Rear Bucket



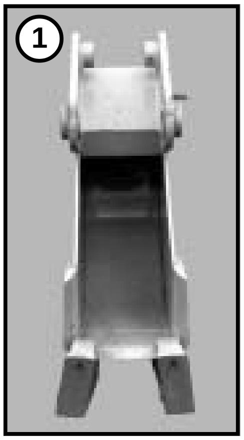
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	10350	Cylinder, Rear Curl (Linkage Type)	1
2	80040	Hose, 1/4" x 118"	1
3	14004	Decal, Stand Clear	4
4	80039	Hose, 1/4" x 115"	1
5	21000	Cylinder, Crowd T5C	1
6	14055	Decal, Small Terramite	2
7	21200	Cylinder, Boom T5C	1
8	14054	Decal, Warning Crush Hazard	2
9	11160	Bucket, Assembly 16" - Quick Attach	1
10	14226	Decal, Digging Depth 8'-4"	2
11	18261	Linkage, Banana Ear - Right	1
12	18240	Linkage Assembly - Center	1

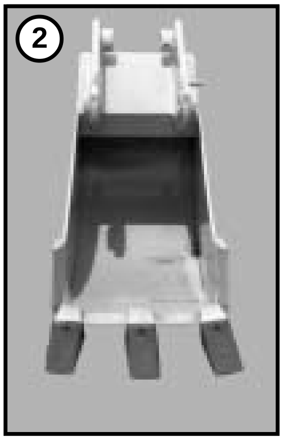
View of Boom Lock Parts

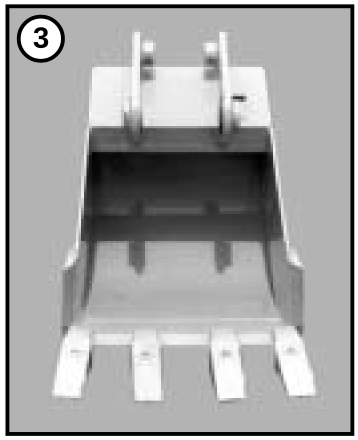


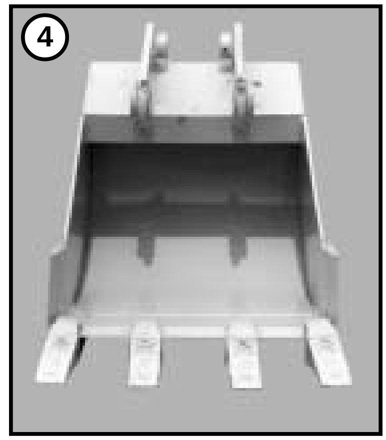
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	10185	Boom/w - Backhoe	1
2	10193	Handle/W - Boom Lock	1
3	17174	Pin/w - Boom Lock Pivot	1
4	10184	Lock/w - Boom Link	1
5	28413	Washer - 5/8" Flat	1
6	13114	Spring - Boom Lock 5 1/2" Long	1
7	13115	Spring - Boom Lock Handle	1
8	13942	Knob - Red Handle	1
9	22043	Bolt - 3/8" x 1 3/4" LG. GR. 5	1
10	22014	Bolt - 3/8" x 2 1/4" LG. GR. 5	1
11	22053	Bolt - 1/2" x 3/4" LG. GR. 8	1
12	20082	Nut - 3/8" Flange	1
13	28957	Washer - 7/16" USS	1
14	28956	Washer - 3/8" SAE	1

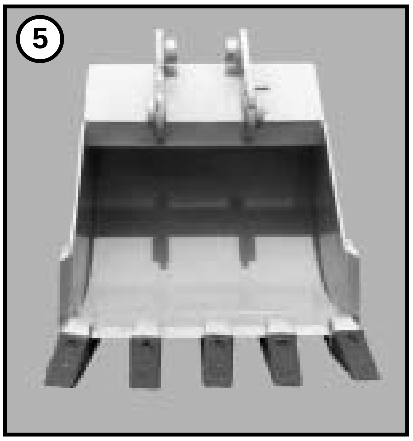
Quick Attach Backhoe Buckets

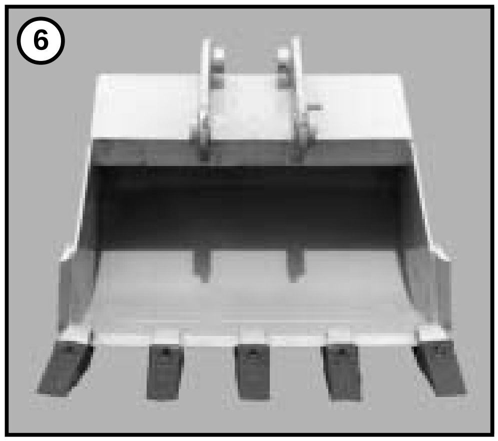




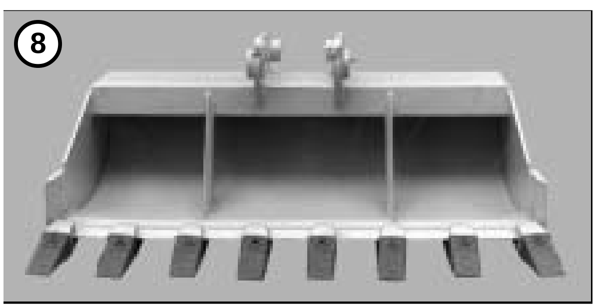


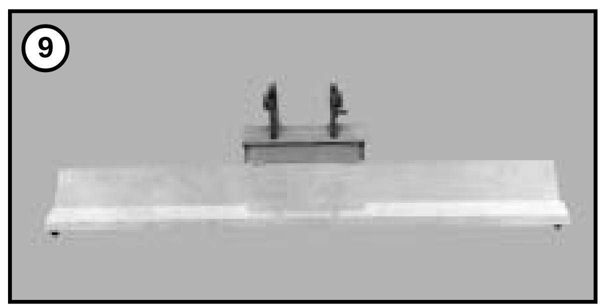












ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19192	8" Bucket, Quick Attach	1
2	19073	12" Bucket, Quick Attach	1
3	19095	16" Bucket, Quick Attach (Standard)	1
4	19172	18" Bucket, Quick Attach	1
5	19184	20" Bucket, Quick Attach	1
6	19214	24" Bucket, Quick Attach	1
7	19002	Ripper, Quick Attach	1
8	19148	36" Bucket, Quick Attach	1
	19157	38" Bucket, Quick Attach	1
9	19001	Landscape Blade, Quick Attach	1



This is the position machines must be in to check proper level in hydraulic tank. Hydraulic tank gauge will show 3/4" capacity when at proper operating level. Do not exceed this level or you will experience oil spillage from the tank breather cap.

Oil Change and Type Specifications

When your machine is new, the hydraulic system oil and filter should be changed within the first 50 hours of use and every 250 thereafter. Refill the hydraulic reservoir with engine oil type API SF.CD 15W40 when outside temperature is above 40 degrees F (summer). Use engine oil type API SF.CD 10 weight when outside temperature is below 40 degrees F (winter). Replace filter with Terramite 21005 filter or NAPA 1759 filter. It is important to follow these instructions to alleviate any cold weather engine starting problems and any pressure or heat related component failure. This is an engine type oil used in the hydraulic system!

DO NOT USE HYDRAULIC OIL!
MAJOR DAMAGE WILL RESULT!

For your engine oil requirements and change intervals refer to your engine owners manual.

On Hand Spare Parts

Following is a list of spare parts we recommend you keep on hand.

Oil, Fuel and Air Filters

Spark Plugs (According to Engine Type)

Fuses (According to Engine Type)

One of each size Cylinder Packing Kit (specify serial number of machine when ordering)

Grease Fittings

One each of a longest length and medium length Hoses and spare Cylinder Fittings

Tie Rod End

Tooth Caps with Pins

Special Tools

ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	10599	1-05.SDT	Punch, for 1-05.SD & TT Tooth Caps	1
2	21176	A-176	Spanner wrench for cylinder repair	1

WHETHER YOU OWN ONE TERRAMITE OR 100,

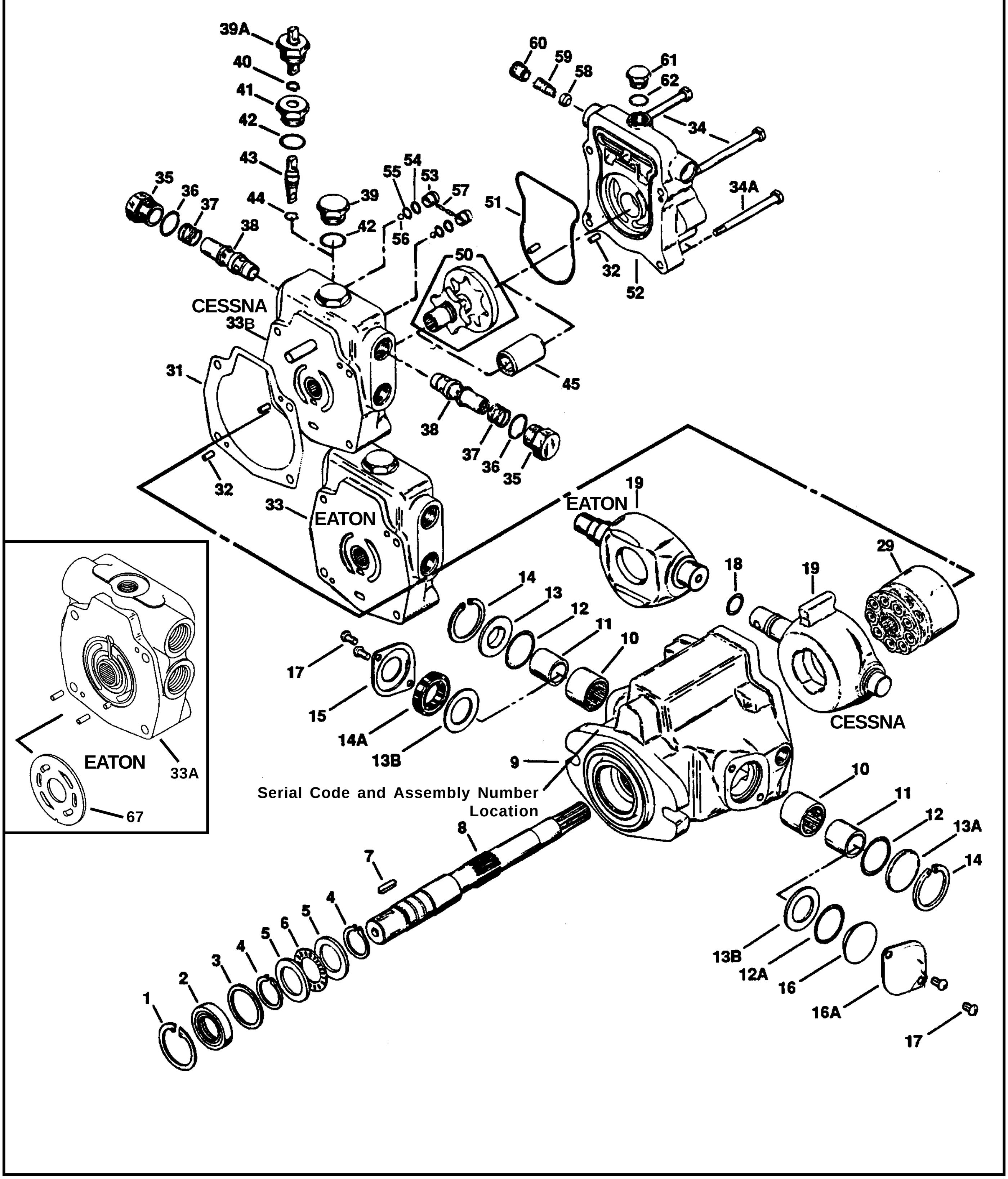
CONTACT OUR PARTS/SERVICE DEPARTMENT FOR ANY ADVICE YOU MAY NEED TO TAILOR A STOCK LIST TO YOUR SPECIFIC NEEDS

600 Goff Mountain Road t P.O. Box 7146, Charleston, WV 25356-7146
1-800-428-3772 t Fax 1-800-776-4845
International 1-304-776-4231 t Fax 1-304-776-4845
http:\\www.terramite.com

SECTION THREE

COMPONENTS

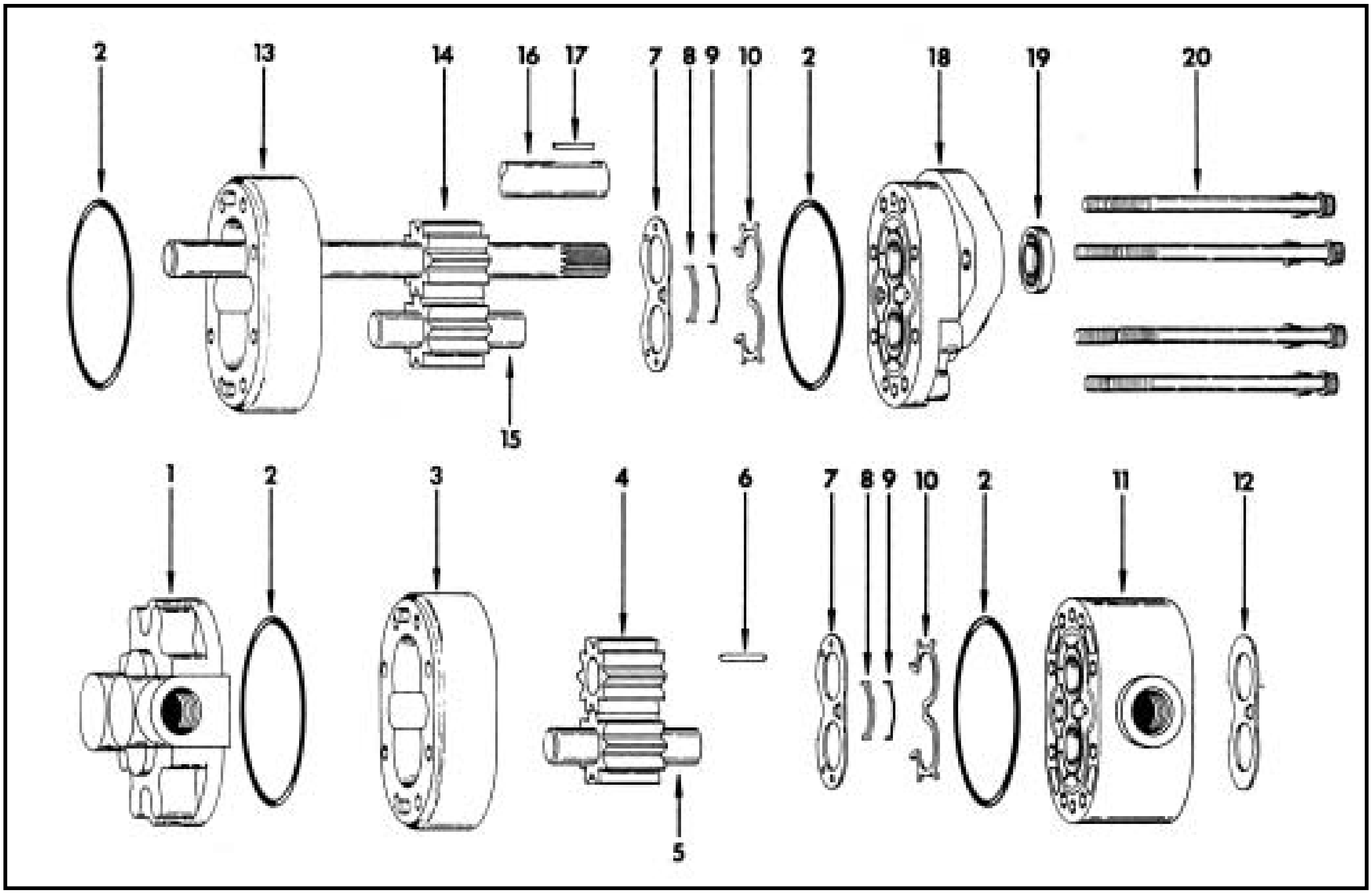
Hydrastatic Transmission



***PLEASE PROVIDE SERIAL NUMBER AND ENGINE TYPE OF MACHINE WHEN ORDERING ANY COMPONENT PARTS.**

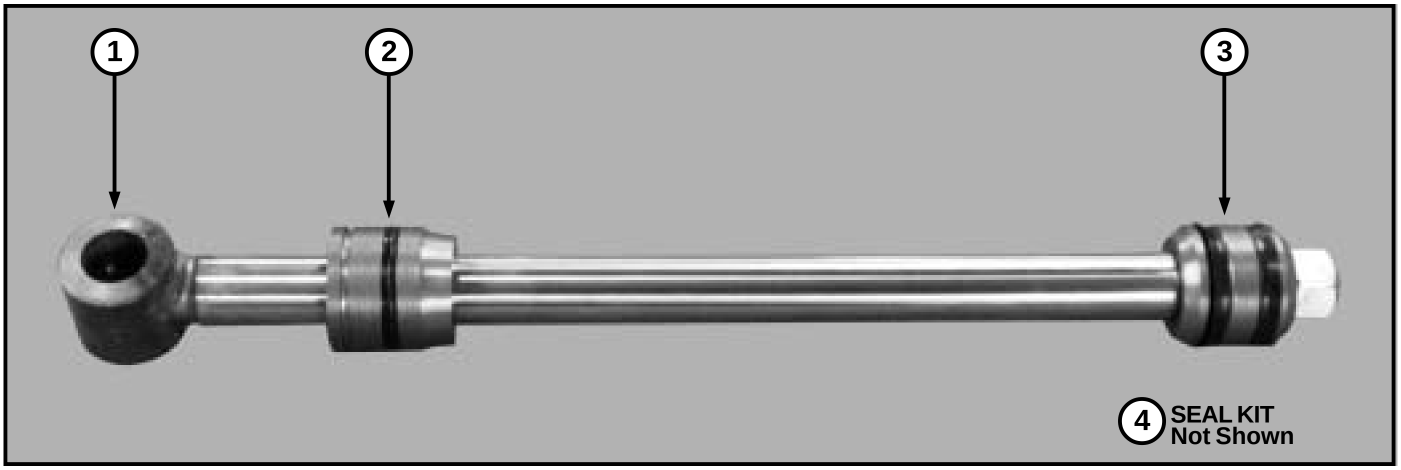
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	60401	Retaining Ring	1
2	60402	Shaft Seal	1
3	60403	Washer	1
4	60404	Retaining Ring	2
5	60405	Bearing Race	2
6	60406	Bearing, Thrust	1
7	60471	Key	1
8	60407	Drive Shaft	1
9	60409	Housing Assembly	1
10	60410	Bearing	2
11	60411	Inner Race	2
12	60412	O-Ring, 3/32" x 15/16", Outer Pintle	2
13	60465	Sleeve Cover	1
13A	60415	Trunnion Cover	1
13B	60561	Washer	1
14	60414	Retaining Ring	2
14A	60562	Seal, Pintle	1
15	60418	Seal Cover	1
17	60564	Screws, Trunnion Cover	2
18	60516	O-Ring, Outer Pintle	1
19	60517	Camplate, For Eaton Trans.	1
19	60417	Camplate, For Cessna Trans.	1
29	60422	Rotating Kit Assembly	1
31	60429	Housing, Gasket	1
33	60533	Backplate Assy., Eaton, with Power Steering	1
33A	60535	Backplate Assy., w/valve plate, Eaton	1
33B	60432	Backplate Assy., Cessna, without Power Steering	1
35	60436	Plug Assembly	2
36	60435	O-Ring 3 3/32" x 7/8" ID, Back Plate	1
37	60434	Spring, Transmission, Relief Valve	2
38	60467	Relief Valve Assembly	2
39	60433	Plug Assembly	1
40	60440	Retaining Ring	1
41	60441	Separator Plug	1
42	60442	O-Ring, 3 3/32" x 7/8"	1
43	60454	Spreader	1
44	60437	O-Ring, 1/16" x 3/8"	1
45	60443	Coupler	1
51	60449	O-Ring, Molded	1
52	60453	Adapter Assembly without Power Steering	1
	60553	Adapter Assembly with Power Steering	
53	60450	Check Valve Assembly	2
54	60452	Back Up Washer	2
55	60455	O-Ring,1/16" x 7/16"	2
56	60456	Steel Ball	2
57	60457	Pin	2
58	60461	Poppet Filter Relief	1
59	60463	Spring	1
60	60560	Spring Retainer	1
61	60469	Plug Assembly	1
62	60466	O-Ring, 3 3/32" x 41/64"	1
64	60464	O-Ring, 1/16" x 3 1/4"	1
65	60465	Cover Plate	1
66	60459	Cap Screw	2
67	60534	Plate, Valve	1
*S	64100	Seal Repair Kit, Cessna	1
*S	64101	Seal Repair Kit Eaton	1
*S	60043	Rotating Rebuild Kit, Cessna	1
*S	60564	Screws, Trunnion Cover	2

Double Gear Pump Part # 66000 (Gas) or #66007 (Diesel)



REF. NO.	DESCRIPTION	REQ.D PER ASSY.	REF. NO.	DESCRIPTION	REQ'D PER ASSY.
1	Back Plate Assembly	1	11	Adapter Plate	1
2	O-Ring	4	12	Optional Thrust Plate	1
3	Rear Body	1	13	Front Body	1
4	Gear (slip fit)	1	14	Spline Drive Gear Assy.	1
5	Idler Gear Assy. (Rear)	1	15	Idler Gear Assy. (Front)	1
6	Round Key	1	16	Keyed Drive Gear Assy.	1
7	Wear Plate	2	17	Key	1
8	Bearing Seal	2	18	Front Plate Assy.	1
9	Molded O-Ring	2	19	Shaft Seal	1
10	Back-Up Gasket	2	20	Cap Screw	8

Rod Assembly

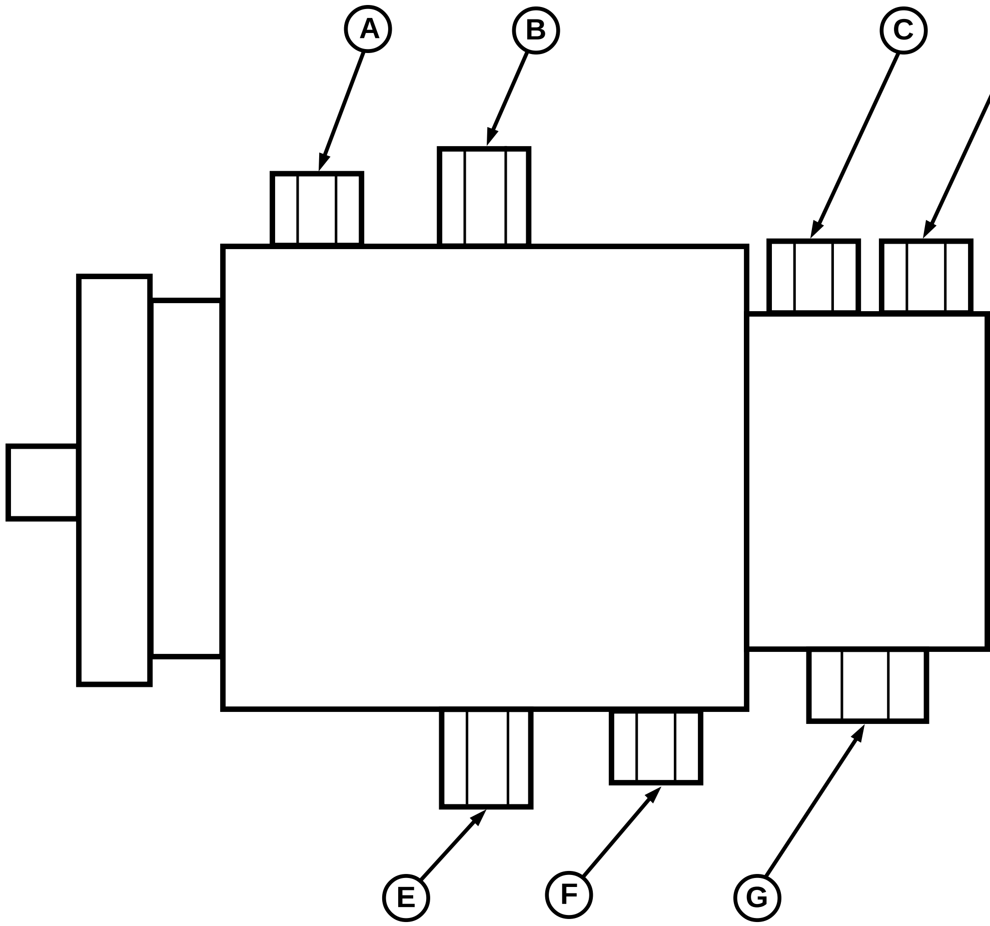


	① ROD		② BEARING BLOCK	③ PISTON	④ SEAL KIT
	ROD DIAMETER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
Arm	1"	22501	22103	21111	21151
Power Steering	1"	25803	22103	21111	21151
Swing	1"	25201	22103	21111	21151
Front Curls (2)	$1\frac{1}{8}$"	82073	22203	21111	21125
Rear Curl*	$1\frac{1}{8}$"	81032	22203	21111	21125
Outrigger	$1\frac{1}{8}$"	21601	22203	21111	21125
Boom Lift	$1\frac{1}{4}$"	21201	82058	23110	21525
Boom Crowd	$1\frac{1}{4}$"	21201	82058	23110	21525

*Standard

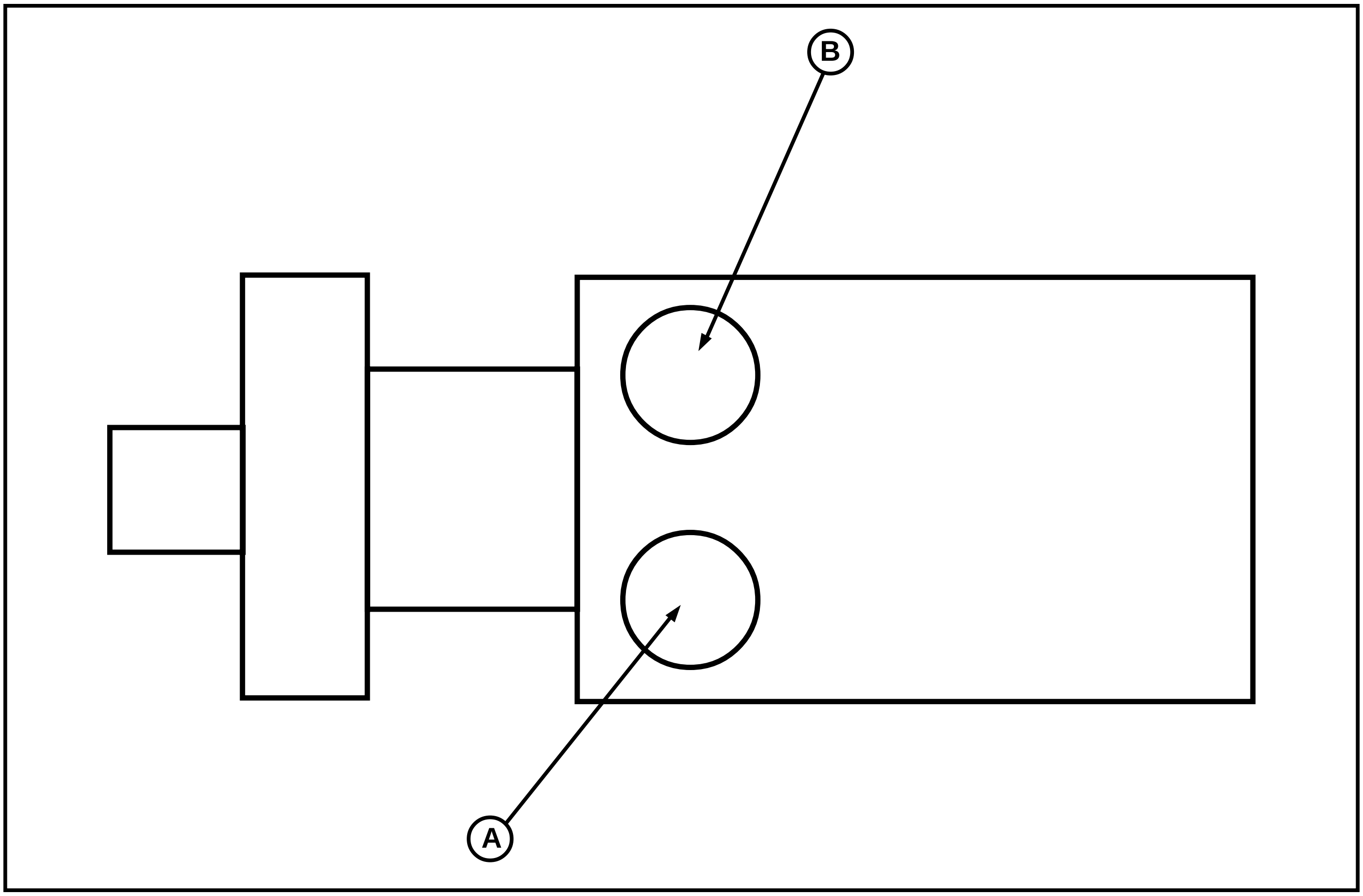
NOTE: All rod assemblies use the same locknut Part Number 23420

T5D Transmission



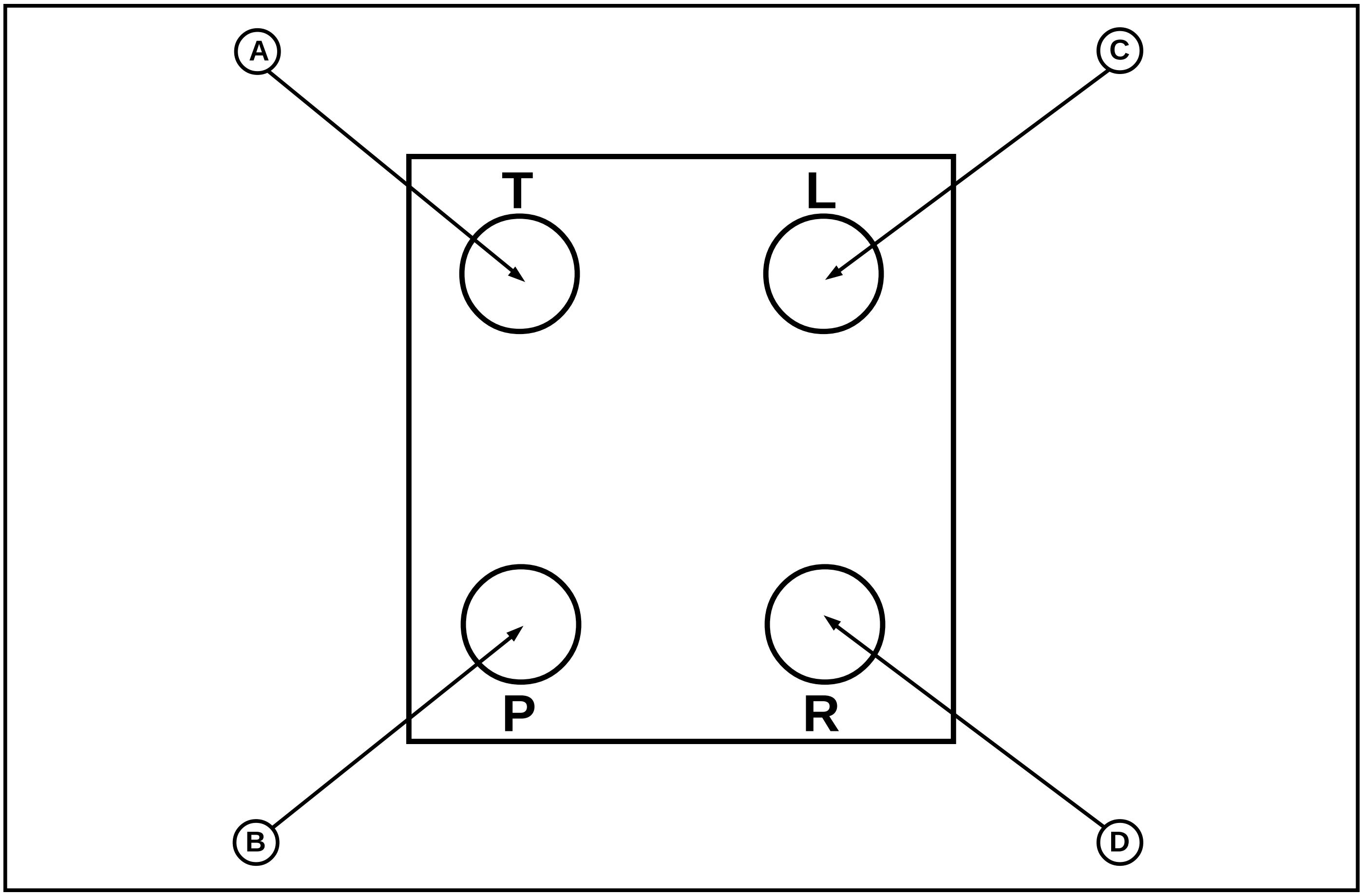
HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88614	Discharge Port - Transmission	Oil Tank - Upper return (A) (SEE PAGE 3.9)
B	88820	Exhaust Port - Transmission	Torque Motor - (B) (SEE PAGE 3.6)
C	88857	Pressure Port - Gear Pump	Rear Valve Assembly Intake Port (C) (SEE PAGE ???)
D	88658	Pressure Port - Gear Pump	Steering Column - Port "P" (B) (SEE PAGE 3.7)
E	88820	Exhaust Port - Transmission	Torque Motor - (A) (SEE PAGE 3.5)
F	88820	Charge Intake - Transmission	Oil Tank - Lower Return (C) (SEE PAGE 3.9)
G	81624	Intake Port - Gear Pump	Oil Tank - Intake (D) (SEE PAGE 3.9)

T5D Torque Motor



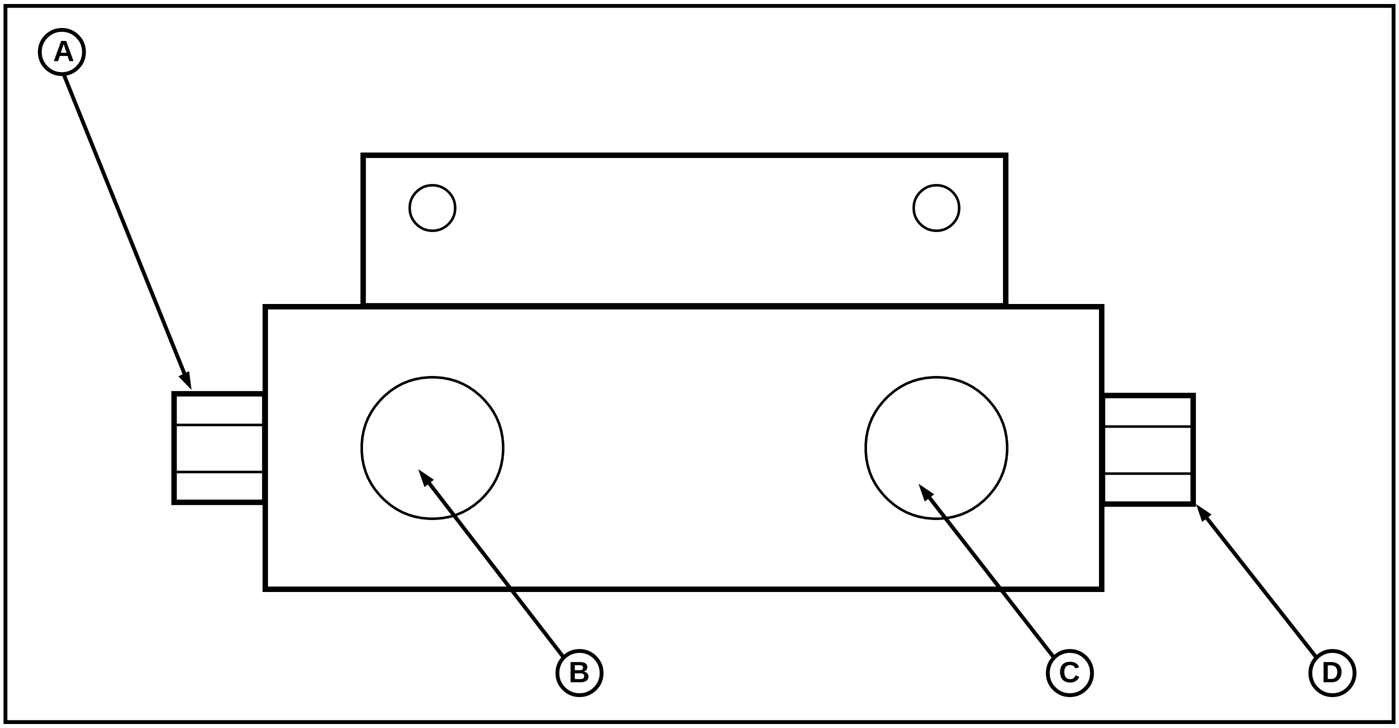
HOSE	PART NUMBER	STARTING POINT	ENDING POINT
GASOLINE MOTORS			
A	88820	Torque Motor	Transmission - Exhaust Port (E) (SEE PAGE 3.1)
B	88820	Torque Motor	Transmission - Exhaust Port (B) (SEE PAGE 3.1)
DIESEL MOTORS			
A	?????	Torque Motor	Transmission - Exhaust Port (B) (SEE PAGE 3.1)
B	?????	Torque Motor	Transmission - Exhaust Port (E) (SEE PAGE 3.1)

T5D Steering Column



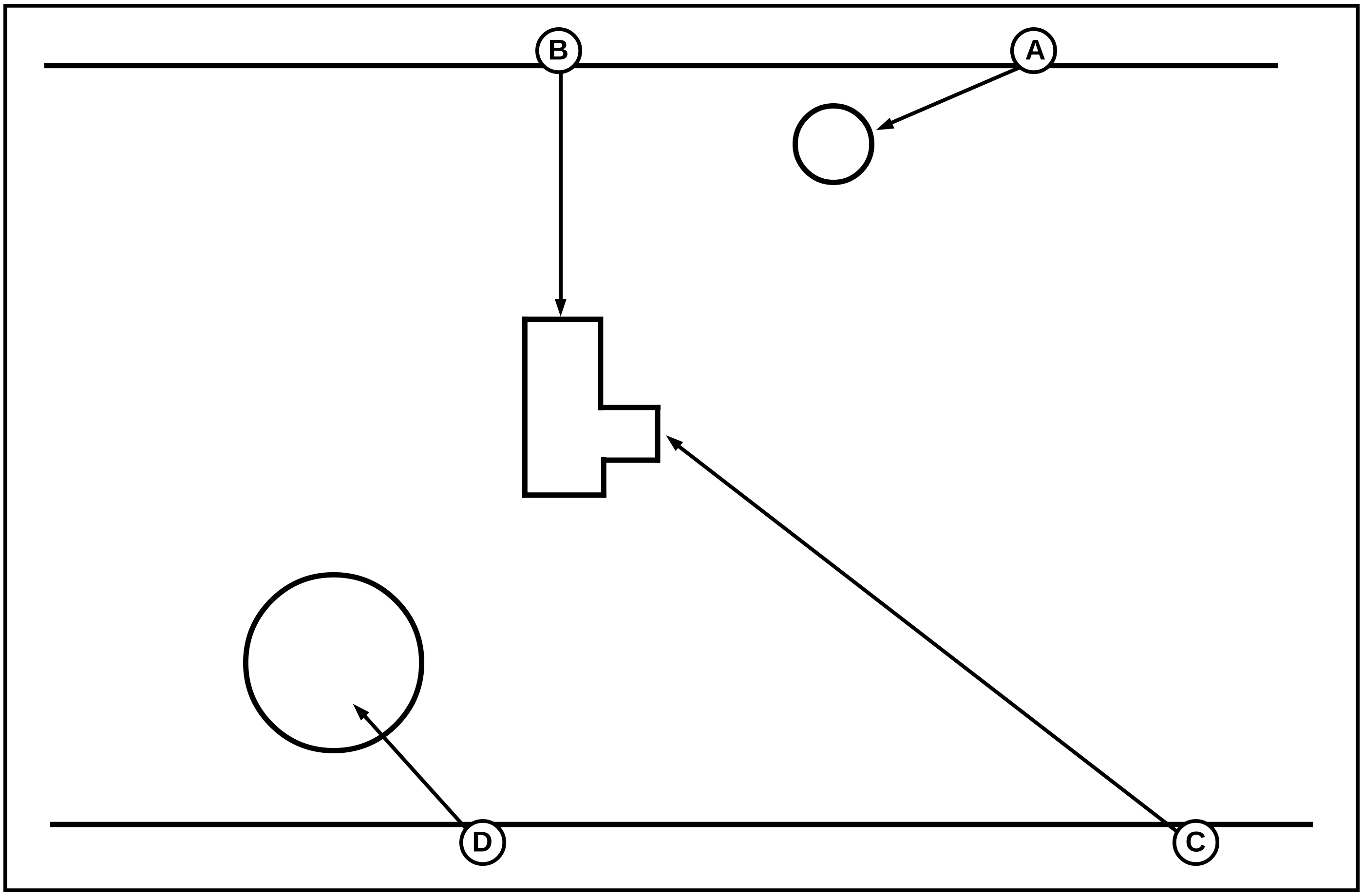
HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88658	"T" Port Steering Column	Drive System Block - Ⓑ (SEE PAGE 3.13)
B	88658	"P" Port Steering Column	Transmission - Gear Pump Ⓒ (SEE PAGE 3.1)
C	88465	"L" Port Steering Column	Steering Cylinder - Ⓐ (SEE PAGE 3.9)
D	88465	"R" Port Steering Column	Steering Cylinder - Ⓑ (SEE PAGE 3.9)

T5D Drive System Distributor Block



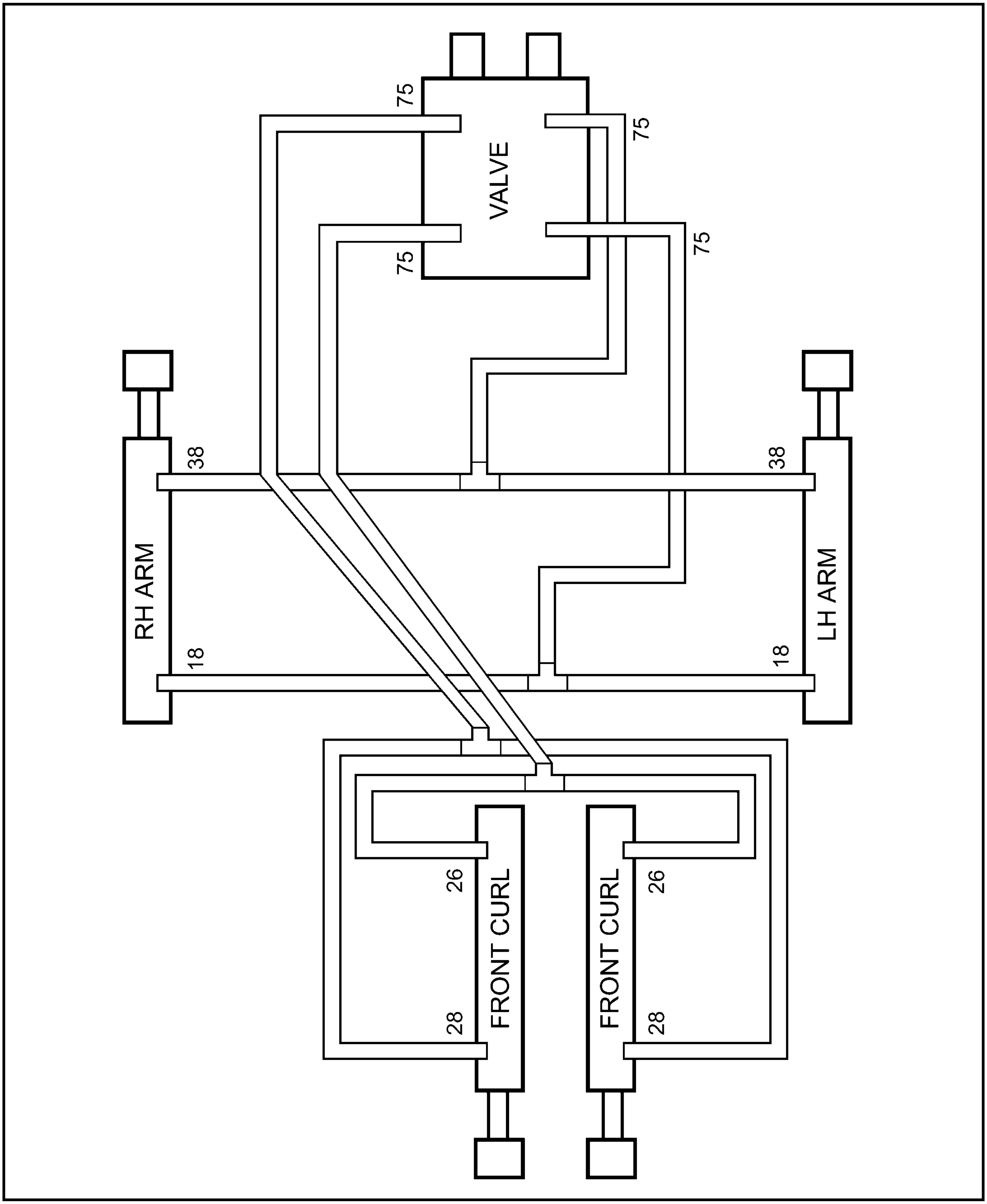
HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88100	Port A	Oil Cooler - Return Line Ⓐ (SEE PAGE 3.7)
B	88658	Port B	Steering Column - Port "T" Ⓐ (SEE PAGE 3.8)
C	88840	Port C	R. Valve - Return Ⓑ (SEE PAGE 3.11)
D	81012	Port D	Filter - Intake Ⓑ (SEE PAGE 3.12)

T5D Hydraulic Oil Tank Assembly

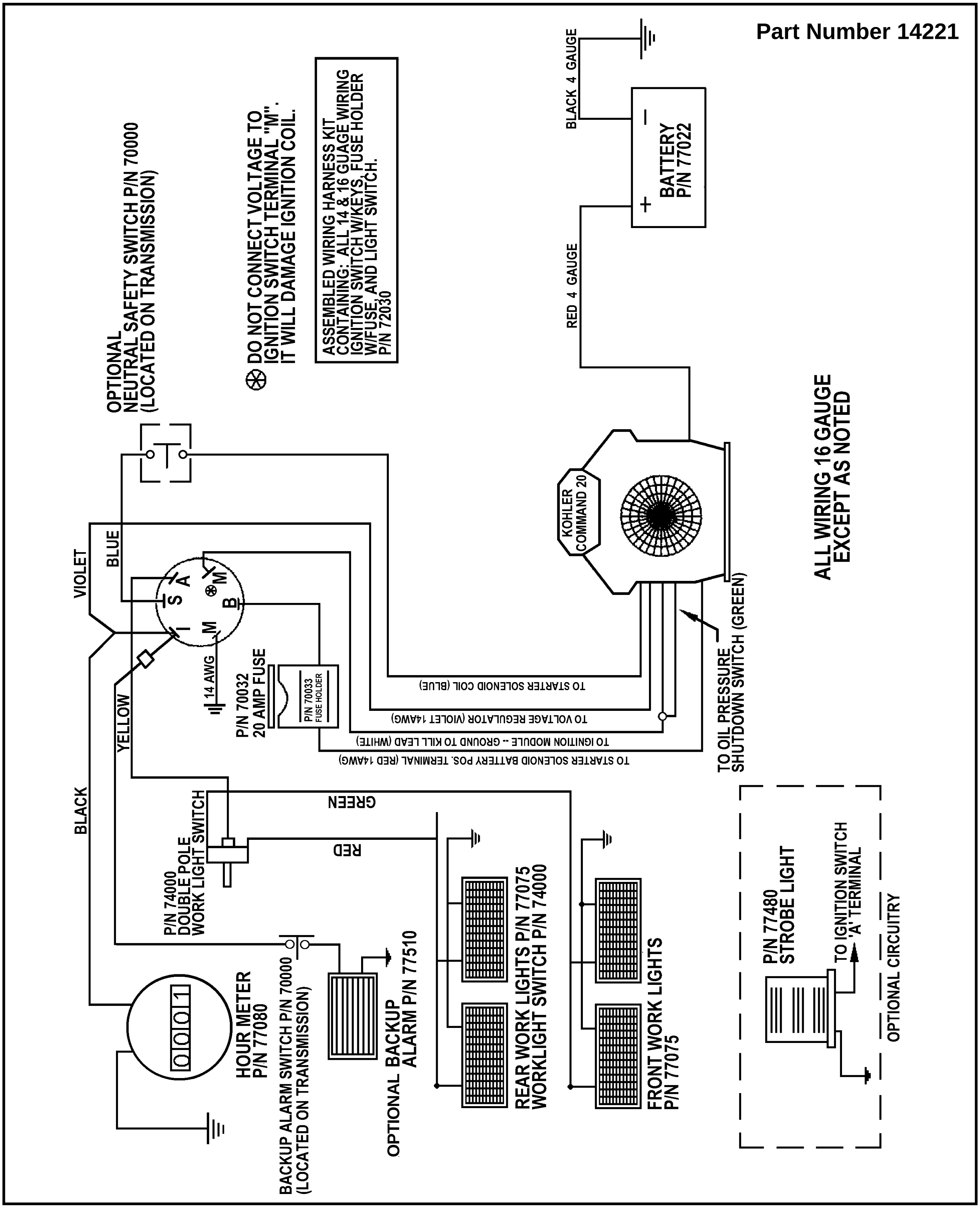


HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88614	Oil Tank - Upper Return	Transmission - Discharge (A) (SEE PAGE 3.3)
B	81028	Oil Tank - Lower Return	Filter Assembly - Return (A) (SEE PAGE 3.12)
C	88820	Oil Tank - Lower Return	Transmission - Charge Intake (F) (SEE PAGE 3.1)
	88184	Oil Tank - Lower Return	Transmission - Charge Intake (D) (SEE PAGE 3.3)
D	81624	Oil Tank - Intake	Transmission - Gear Pump Intake (J) (SEE PAGE 3.3)

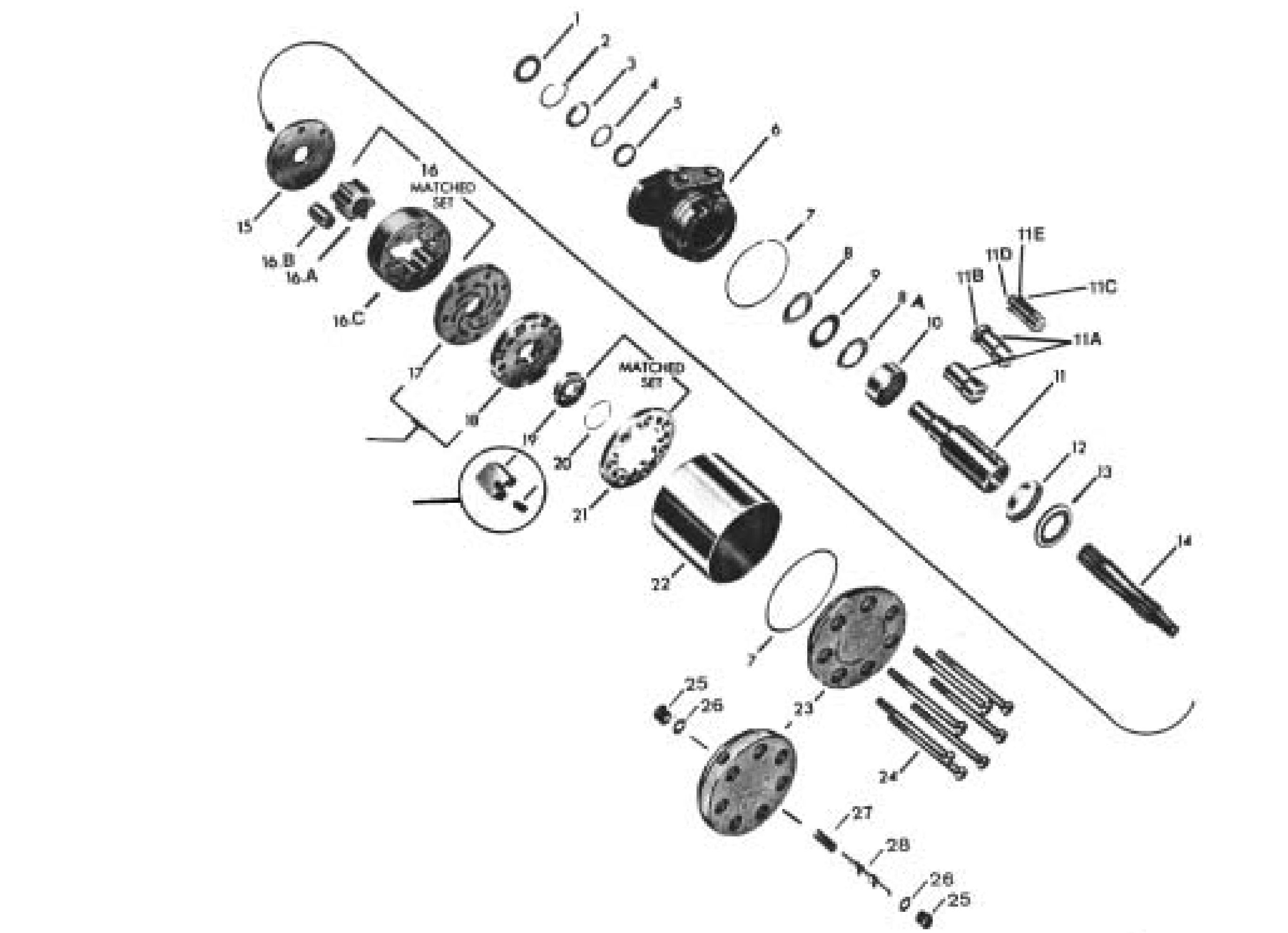
T5D Loader Hydraulic Circuit Hose Lengths (in.)



T5D Wiring Diagram Kohler Command 20 HP / 25 HP



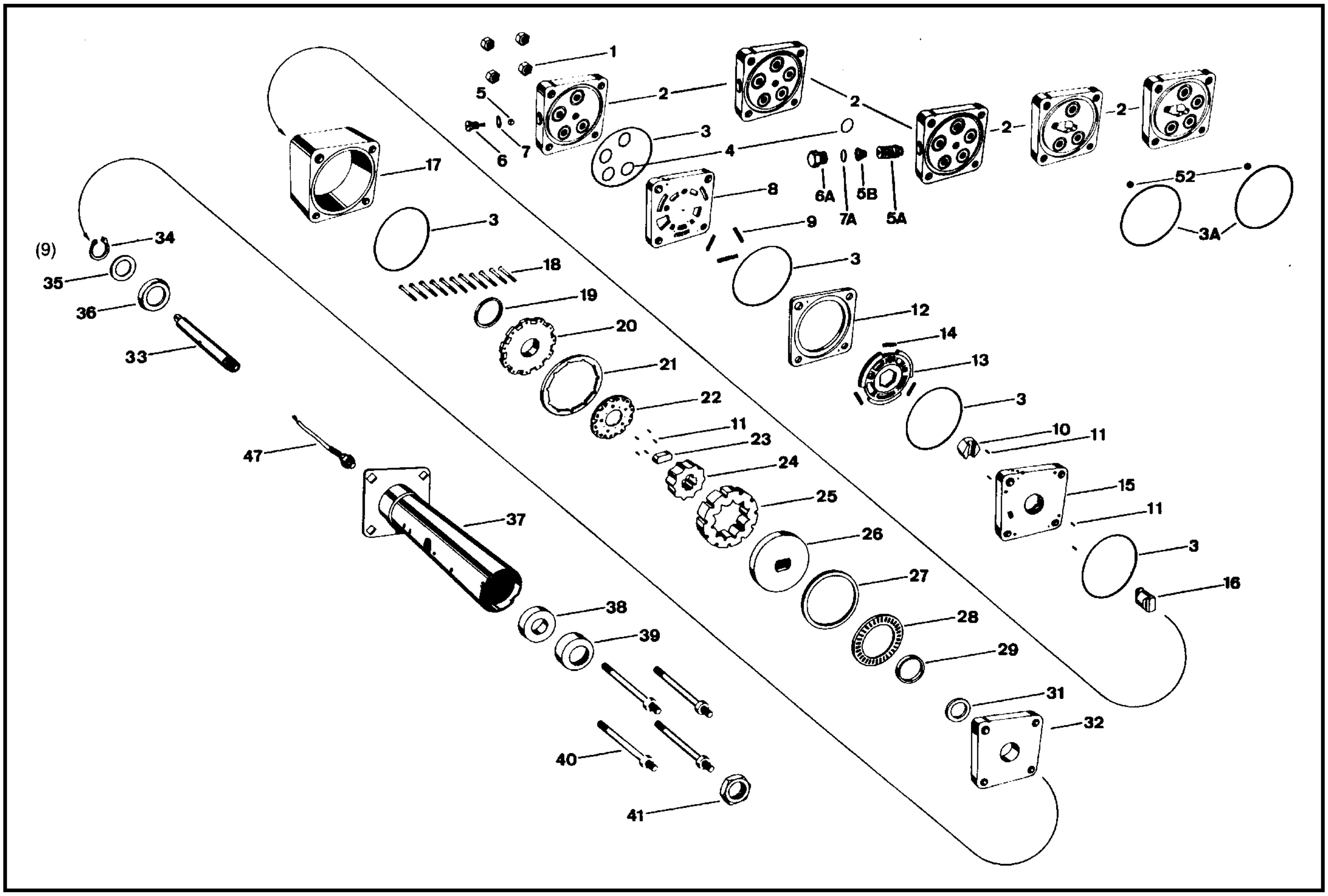
MAB/MAE Torquemotor Exploded Assembly View - Typical



ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Seal	11B	Nut	17	Manifold Plate
2	Retaining Ring	11C	Washer	18	Manifold
3	Back-Up Washer	11D	Bolt	19	Commutator
4	Washer	11E	Lock Washer	20	Seal Ring
5	Seal	12	Bearing	21	Commutator Ring
6	Housing	13	Thrust Bearing	22	Sleeve
7	Seal Ring (2)	14	Drive Link	23	End Cover Assembly
8	Thrust Washer	15	Wear Plate	24	Special Bolt (7)
8A	Thrust Washer	16	Rotor Set	25	Plug
9	Thrust Bearing	16A	Rotor	26	O-Ring
10	Bearing	16B	Vane (7)	27	Sping
11	Coupling Shaft	16C	Stator	28	Valve (Shuttle)
11A	Key				

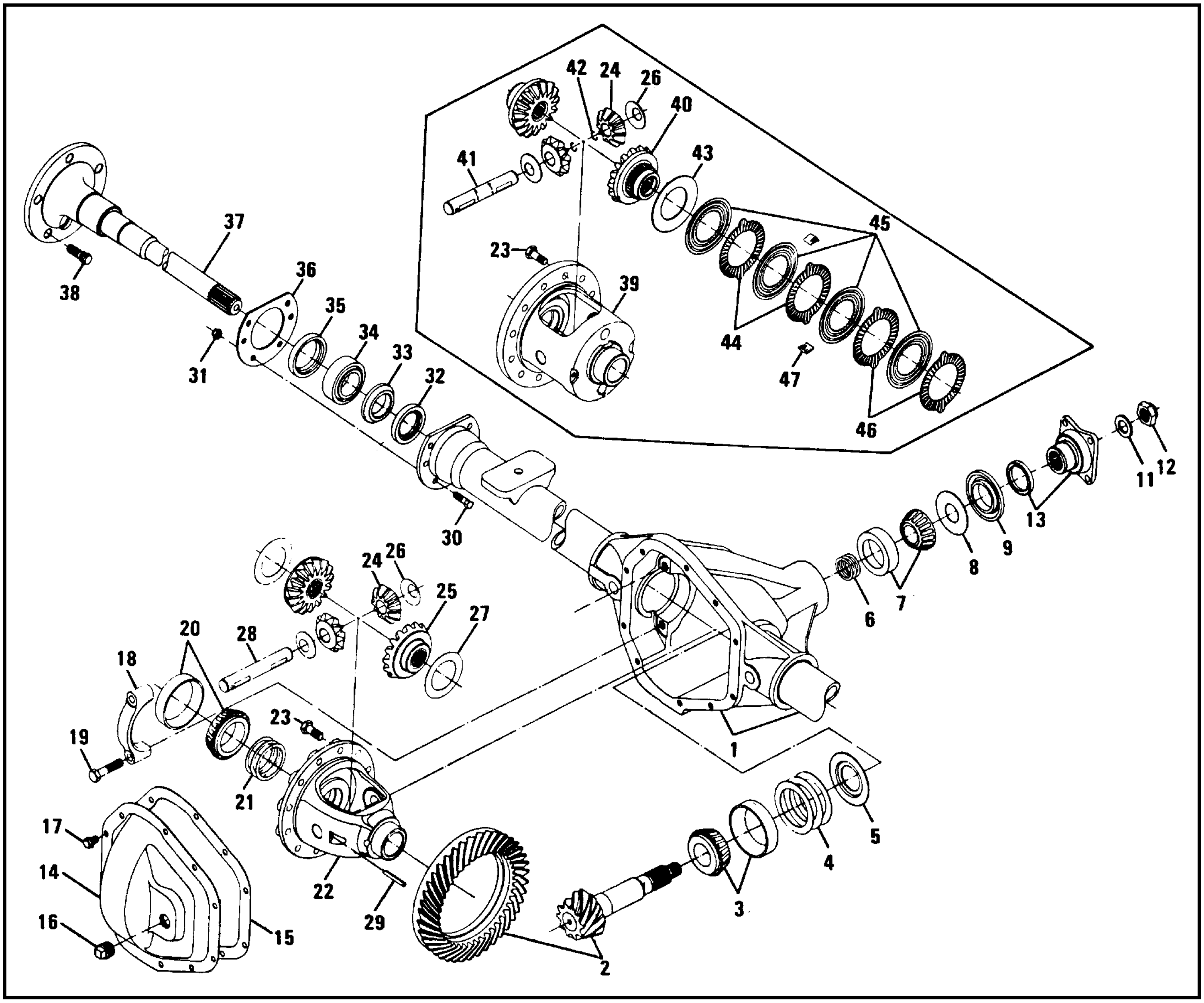
***PLEASE PROVIDE MODEL AND TYPE OF TORQUE MOTOR WHEN ORDERING PARTS.**

Power Steering Column Exploded Assembly View-Typical



ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Nut 5/16 UNF 24 (4)	12	Valve Ring } *Matched Set*	28	Thrust Bearing
2	Port Cover	13	Valve Plate } *Matched Set*	29	Face Seal
3	Seal Ring (5)	14	Spring, 1/2 Inch (13mm) (3)	31	Seal Spacer
3A	Seal Ring (White)	15	Isolation Manifold	32	Upper Cover Plate
4	O'Ring (3), (4) or (5)	16	Drive Link	33	Input Shaft/Wheel Tube
5	Ball-7/32 inch (6mm) dia.	17	Metering Ring	34	Retaining Ring
5A	Relief Valve Cartridge	18	Screw, Hex Socket Hd (11)	35	Washer-Retaining Plate
5B	Coil Spring	19	Seal, Commutator	36	Retaining Plate } *Matched Set*
6	Plug	20	Commutator Cover	37	Upper Cover & Jacket Assy. } *Matched Set*
6A	Hex Plug	21	Commutator Ring	38	Bushing
7	O'Ring, Plug & O'Ring Assy.	22	Commutator	39	Seal
7A	O'Ring	23	Spacer-Drive Link	40	Special Bolt, 5/16 24UNF-2A
8	Port Manifold	24	Rotor } *Matched Set*	41	Nut
9	Spring, 3/4 inch (19mm) (3)	25	Stator } *Matched Set*	52	Ball 9/32 inch (22mm)
10	Hex Drive Assy.	26	Drive Plate		Items #44, 45, 46, 51 are not part of HGF service assembly unit. They must be purchased as separate items of order.
11	Alignment Pin (Needle Brg.) (9)	27	Spacer-Trust Bearing		

Rear Axle Assembly



ITEM	PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
1	55010	Housing-Axle	*	
2	64004	Gear & Pinion Ass'y-Drive	*	
3	55030	Kit-Inner Pinion Bearing	706031X	
4	55040	Shim-Drive Pinion Adjusting	*	
5	55050	Baffle-Pinion Bearing	*	
6	55060	Shim-Pinion Bearing Adjusting	*	
7	55070	Kit-Outer Pinion Bearing	706030X	
8	55080	Slinger-Pinion Bearing Outer	*	
9	55090	Seal-Pinion	35723	
10	55100	End Yoke Assembly	3-4-5761X	

Continued On Next Page

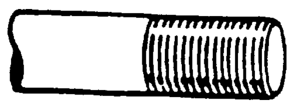
Rear Axle Assembly (Continued)

ITEM	PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
1	55010	Housing-Axle	*	
11	55110	Washer-Pinion Nut	30186	
12	55120	Nut-Pinion	30185	
13	55130	Companion Flange Assembly	2-1-1881X	
14	55140	Cover-Carrier	*	
15	55150	Gasket-Carrier Cover	34685	
16	55160	Plug-Cover	36472	
17	55170	Bolt-Carrier Cover	34279	
18	55180	Cap-Differential Bearing	**	
19	55190	Bolt-Differential Bearing Cap	500400-20	
20	55200	Kit-Differential Bearing	706032X	
21	55210	Shim-Differential Bearing	*	
22	55220	Case-Differential	*	
23	55230	Bolt-Drive Gear	30187	
24	55240	Pinion-Differential	*	
25	55250	Gear-Differential	*	
26	55260	Thrust Washer-Differential Pinion	*	
27	55270	Thrust Washer-Differential Gear	*	
28	55280	Shaft-Differential	*	
29	55290	Lock-Differential Shaft	13449	
30	55300	Bolt-Break Mounting	34616-1	
31	55310	Nut-Brake Mounting	35704	
32	55320	Seal-Shaft Inboard	34419	
33	55330	Ring-Wheel Bearing Retaining	32755	
34	55340	Bearing Assembly	565903	
35	55350	Seal-Shaft Outboard	35239	
36	55360	Retainer-Oil Seal	35490	
37	55370	Shaft-Axle Flanged	*	
38	55380	Bolt-Wheel	35491	
LIMITED SLIP DIFFERENTIAL (TRAC-LOK) STD. ON SER #9975236 & UP				
39	55390	Case-Differential	*	
40	55400	Gear-Differential	*	
41	55410	Shaft-Differential	*	
42	55420	Ring-Snap	*	
43	55430	Spacer-Differential Gear (Dished)	*	
44	55440	Plate-Differential	*	
45	55450	Disc-Differential	*	
46	55460	Plate-Differential (Selective Thickness)	*	
47	55470	Clip-Differential Clutch Retainer	*	

General Tightening Torque for Bolts, Nuts and Taperlock Studs

The following charts give the standard torque values for bolts, nuts and taperlock studs for SAE Grade 5 or better quality.

Use these torques for bolts and nuts with standard threads (conversions are approximate).

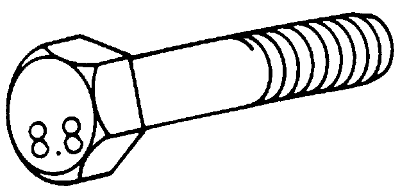


standard thread

Thread Size	Standard Torque	
Inches	Lb. Ft.	N·m*
1/4	9 ± 3	12 ± 4
5/16	18 ± 5	25 ± 7
3/8	32 ± 5	45 ± 7
7/16	50 ± 10	70 ± 15
1/2	75 ± 10	100 ± 15
9/16	110 ± 15	150 ± 20
5/8	150 ± 20	200 ± 25
3/4	265 ± 35	360 ± 50
7/8	420 ± 60	570 ± 80
1	640 ± 80	875 ± 100
1-1/8	800 ± 100	1100 ± 150
1-1/4	1000 ± 120	1350 ± 175
1-3/8	1200 ± 150	1600 ± 200
1-1/2	1500 ± 200	2000 ± 275

*1 newton meter (N·m) is approximately the same as 0.1 mkg.

Metric Fasteners



[Usually, material strength identification on bolt head is with number (i.e., 8.8, 10.9, etc.)]

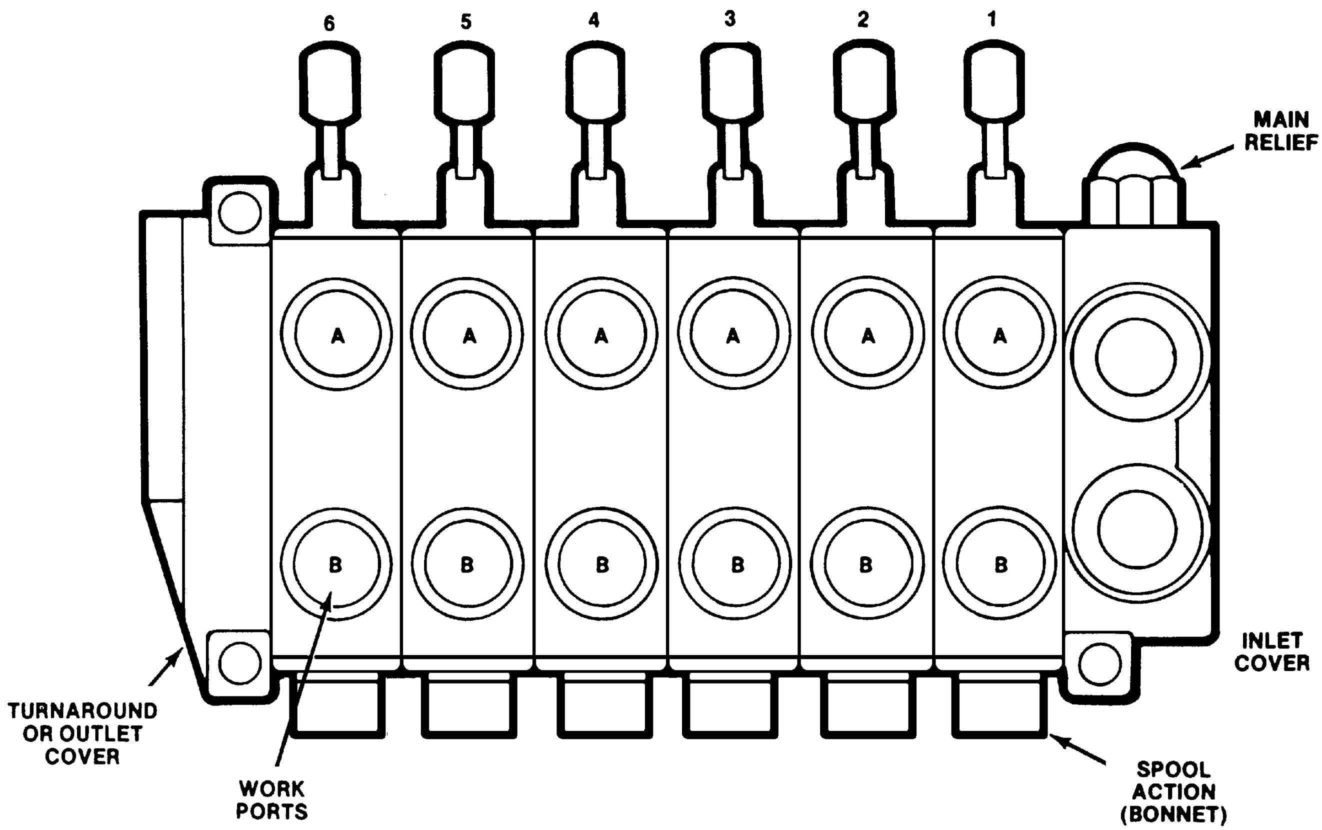
The chart on the right gives the torque for bolts and nuts with Grade 8.8.

NOTICE: Caution must be taken to avoid mixing metric and standard (customary) fasteners. Mismatched or incorrect fasteners can result in vehicle damage or malfunction, or possible personal injury. Original fasteners removed from the vehicle should be saved for assembly when possible. If new ones are required, caution must be taken to replace with one that is of same part no. and grade or better.

Metric ISO Thread		
Thread Size	Torque	
(mm)	(N-m*)	(Lb. Ft.)
M6	12 ± 4	9 ± 3
M8	25 ± 7	18 ± 5
M10	55 ± 10	40 ± 7
M12	95 ± 15	70 ± 10
M14	150 ± 20	110 ± 15
M16	220 ± 30	160 ± 20
M18	325 ± 50	240 ± 35
M20	450 ± 70	330 ± 50
M22	600 ± 90	440 ± 65
M24	775 ± 100	570 ± 75
M27	1150 ± 150	840 ± 110
M30	1610 ± 200	1175 ± 150
M33	2000 ± 275	1450 ± 200
M36	2700 ± 400	2000 ± 300
ISO - International Standard Organization		

*1 newton meter (N·m) is approximately the same as 0.1 mkg.

Schematic-View of Typical Control Valve Assembly



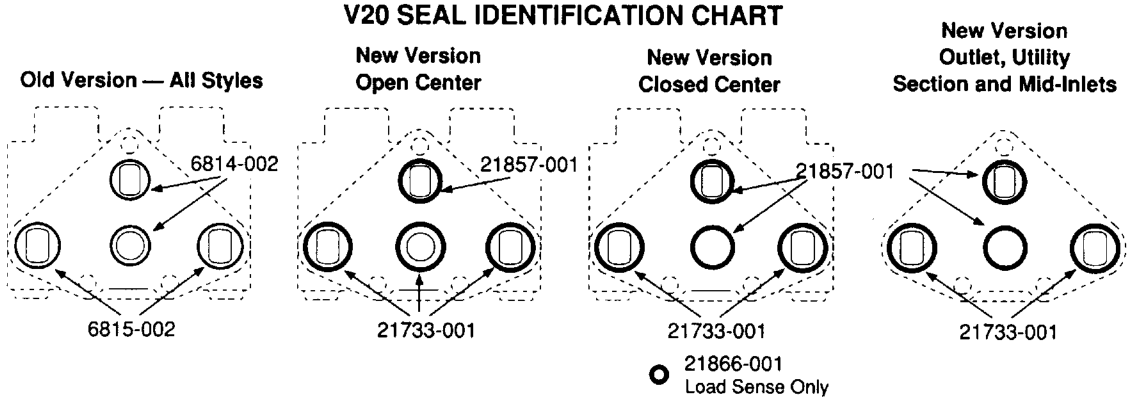
1. Before disassembly, it is suggested that each valve section be marked numerically to avoid incorrect reassembly.
2. Remove three assembly stud nuts from the left end section using a $^{9}/_{16}$" thin wall socket.
3. Remove valve sections by sliding from assembly studs.

Parts Ordering Information

As of April 1, 1991, the section seals for the V20 changed. The new versions have larger cross section (old was .070, new is .103) and different configurations for open center and closed center sections. The old design utilized the same seals for all versions (two .801 I.D. and two .926 I.D.). The new design uses one configuration for open center (three .924 I.D. and one .799 I.D.) and another configuration for closed center, load sensing and all outlet covers (two .924 I.D. and two .799 I.D., with one .237 I.D. for load sensing).

The following charts is provided to aid in selection of the proper seals. It is important to note that the seal kits include all O-rings (new and Old), therefore there will be some left unused.

V20 SEAL IDENTIFICATION CHART



The following section seals are included in the Kits:

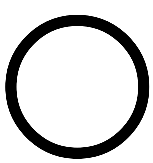
Standard Kits		Viton Kits	
Old	New	Old	New
(2)6814-002 (2)6815-002	(2)21867-001 (3)21733-001	(2)7450-001 (2)7451-001	(2)9003-117 (3)9002-119
Load sensing kits (additional seals)			
(1)8316-001	(1)21866-001	(1)9002-011	(1)9002-108

Seal kit changes.

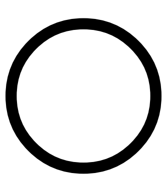
K-6121 Section Seal Kit, One Section
K-6027 Complete Seal Kit, 3 or 4 Way Section
K-6028 Complete Seal Kit, 4 Way Float Section
K-6209 Complete Seal Kit, Series 3 or 4 Way Section
K-6210 Complete Seal Kit, Series 4 Way Float Section
K-6154 Complete Seal Kit, Load Sensing 4 Way Float
K-6155 Complete Seal Kit, Load Sensing 3 or 4 Way Section
K-6156 Section Seal Kit, Load Sensing-One Section
K-6160 Viton Section Seal Kit, One Section

*Complete Seal Kits include spool seals and O-rings for check plugs.

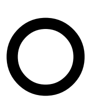
OLD



6814-002 .... STD
7450-001 .... VITON

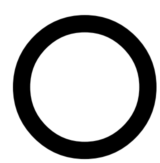


6815-002 .... STD
7451-001 .... VITON

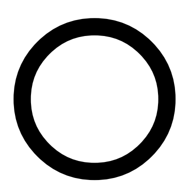


8316-001 .... STD
9002-011 .... VITON

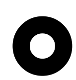
NEW



21867-001 ..... STD
9003-117 .... VITON



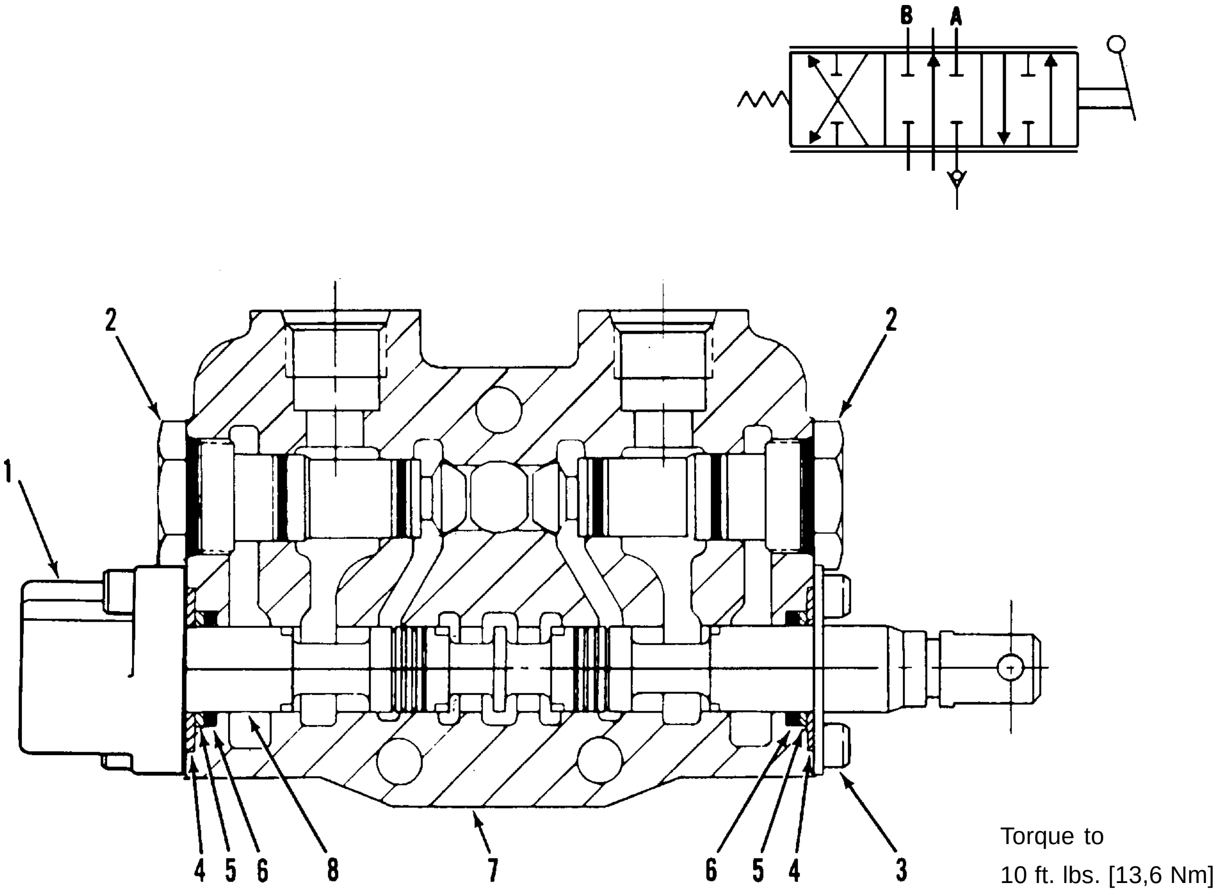
21733-001 ..... STD
9002-119 .... VITON



21866-001 ..... STD
9002-108 .... VITON

THESE SEALS ARE NOT INTERCHANGEABLE. OLD AND NEW STYLE SECTIONS MAY BE USED IN THE SAME ASSEMBLY PROVIDED THE CORRECT SEALS ARE USED FOR EACH SECTION.

4-Way, 3-Position Valve Section

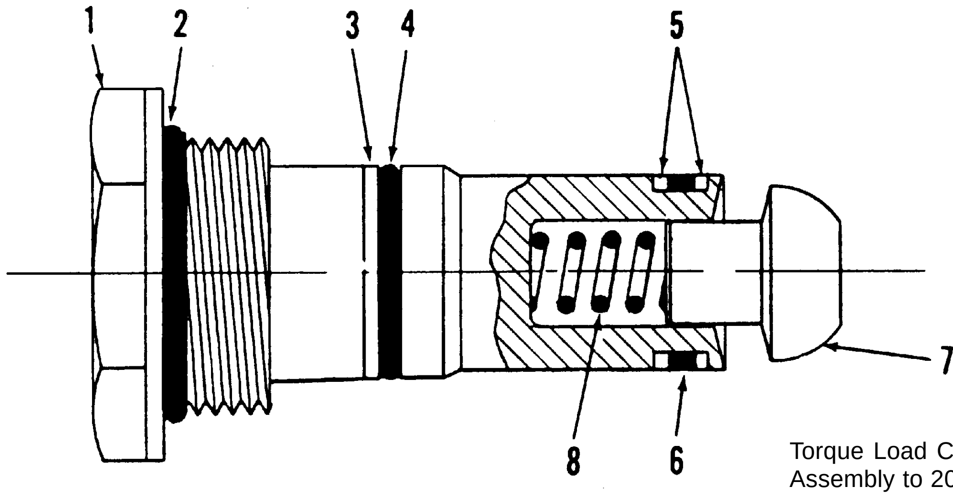


ITEM NO.	DESCRIPTION		QUANTITY PER SECTION
1	POSITIONER, Spool, Standard		1
2	CHECK, Load		2
3	RETAINER ASSEMBLY, Standard, Includes Screws		1
4	RETAINER, Plate Washer		2
5	WASHER, Back-Up	} See Note 1	2
6	SEAL, O-Ring		2
7	HOUSING, Standard	} See Note 2	1
8	SPOOL, 4-Way		1

Notes:
1. Seal and washer not sold separately. Order Seal Kit.
2. These are matched parts and are not sold separately.

Buna-N seals are standard for all Gresen valve assemblies. Optional Viton seals are available.

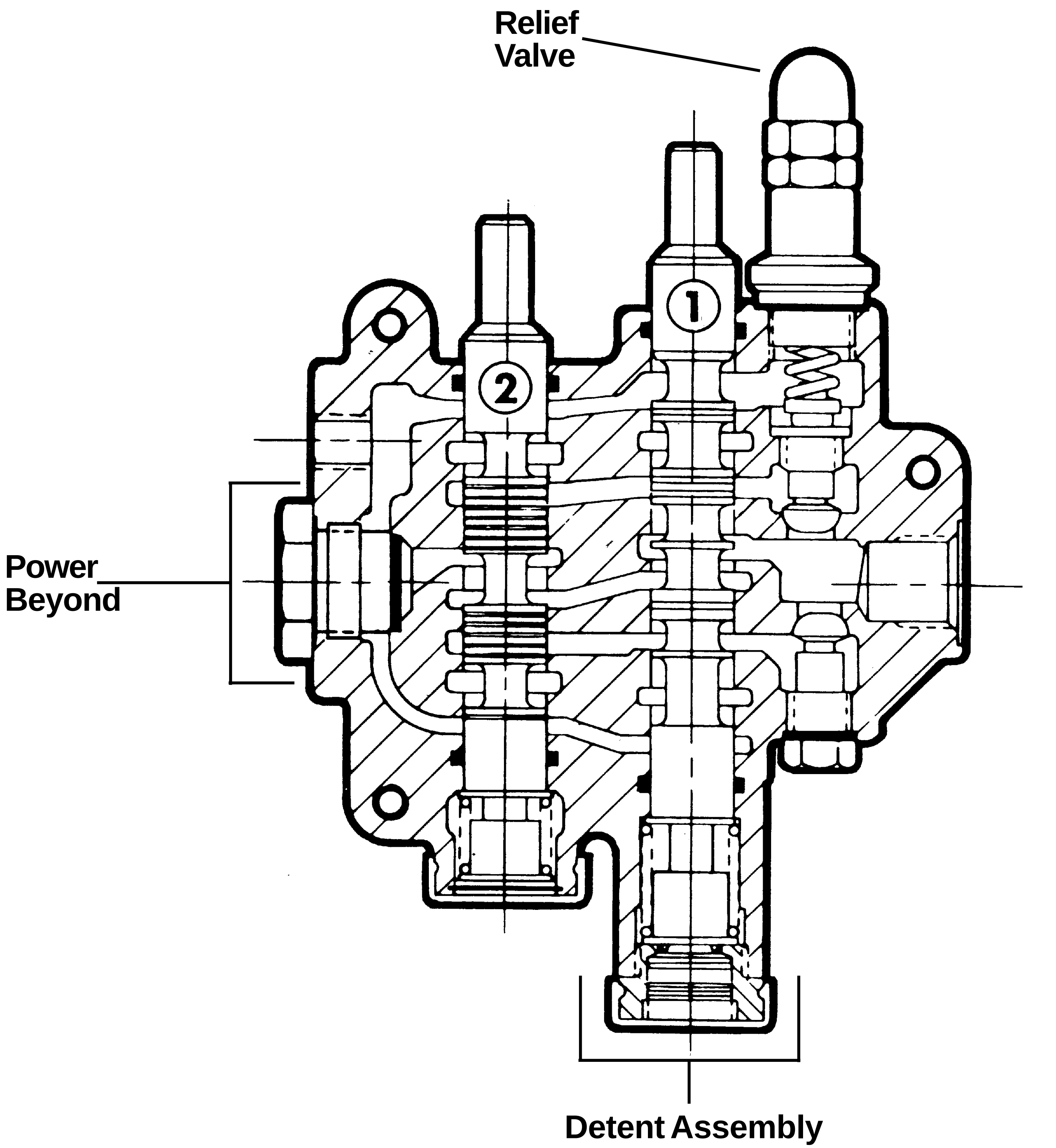
Load Check Plug Assembly



Torque Load Check Plug Assembly to 20 ft. lbs. [27 Nm].

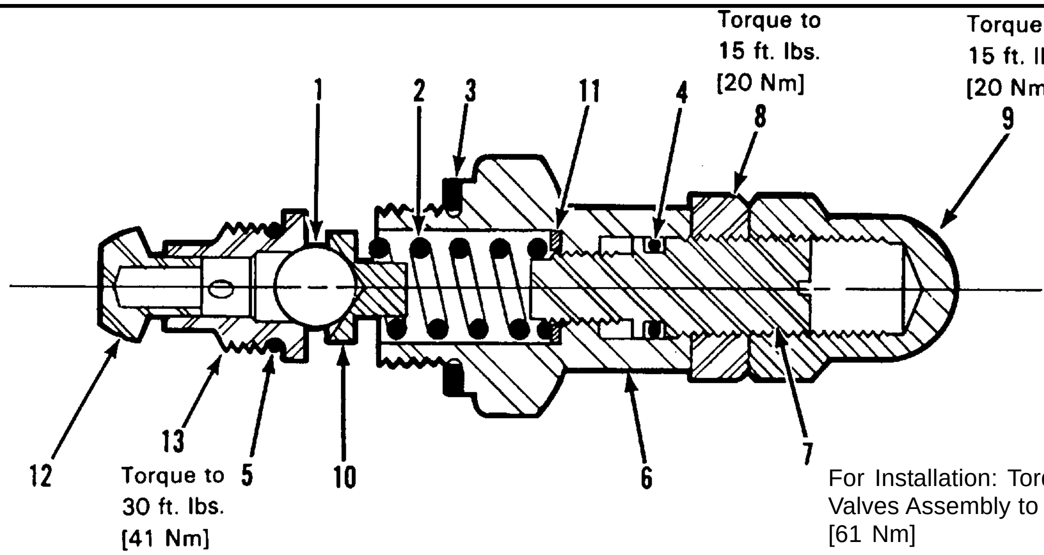
ITEM NO.	DESCRIPTION		QUANTITY PER PLUG ASSEMBLY
	REPLACEMENT LOAD CHECK PLUG ASSEMBLY		
	SEAL KIT, (Contains items 2, 3, 4, 5 and 6)		
1	PLUG, Lift Check, Steel (Heavy Duty)		1
2	SEAL, O-Ring	Not Sold Separately	1
3	WASHER, Back-Up, Outer	Not Sold Separately	1
4	SEAL, O-Ring, Outer	Not Sold Separately	1
5	WASHER, Back-Up, Inner	Not Sold Separately	2
6	SEAL, O-Ring	Not Sold Separately	1
7	POPPET, Lift Check		1
8	SPRING, Lift Check		1

SPK Monoblock Valve



1. Raise and Lower Control Section
2. Curl and Dump Section

Model J-HP High Pressure Relief



For Installation: Torque Relief Valves Assembly to 45 ft. lbs. [61 Nm]

ITEM NO.	DESCRIPTION		QUANTITY PER PLUG ASSEMBLY
1	BALL		1
2	SPRING, Relief (Model SP only)		1
	SPRING, Relief (Models SPK and SSK only)		1
3	GASKET, Relief Body	Not Sold Separately	1
4	O-RING, Adjusting Screw	Not Sold Separately	1
5	O-RING, Valve Seat	Not Sold Separately	1
6	BODY		1
7	SCREW, Adjusting		1
8	NUT, Jam, Adjusting Screw		1
9	NUT, Acorn Cap		1
10	GUIDE, Spring		1
11	WASHER, Spacer (SP)		1
	WASHER, Spacer (SPK)		2
12	POPPET, Check		1
13	SEAT, Valve		1

Hydraulic Filter, Hose and Oil Types

HYDRAULIC FILTER TYPES:

NAPA	1759
WIX	51759

HOSE TYPES:

3/8" 2 WIRE BRAID MP6-6 & MB6-6F

1/2" 2 WIRE BRAID NPT

3/4" SUMP LINE HOSE

OIL:

ABOVE 40°F - API 15W-40 SF/CC/CD

BELOW 40°F - API 10w SF/CC/CD

WARNING: USE ONLY 2 WIRE BRAID HOSES AS SPECIFIED ABOVE. SYNTHETIC OR OTHER TYPES OF HOSES MAY FAIL CAUSING SERIOUS INJURY OR DEATH.

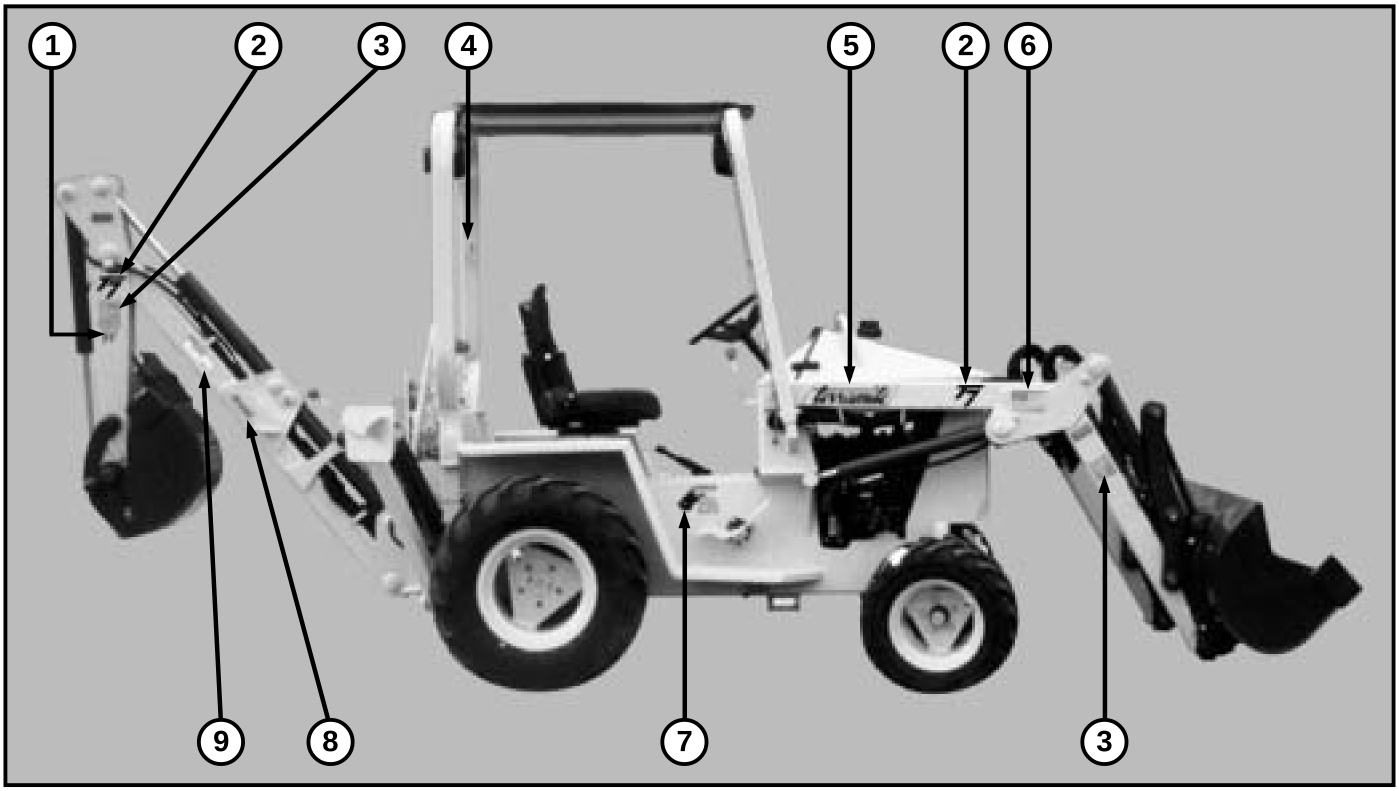
WARNING: DO NOT USE ORDINARY HYDRAULIC OIL OR MAJOR DAMAGE TO TRANSMISSION AND MOTOR WILL RESULT.

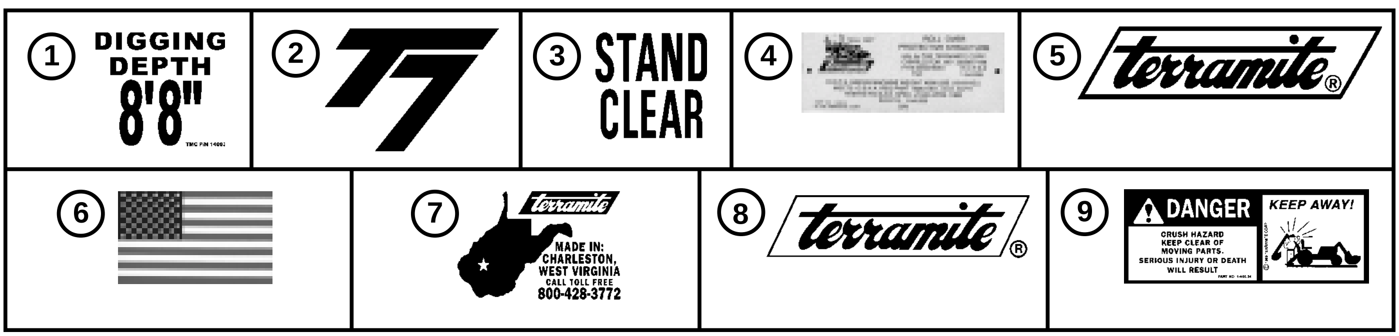
NOTE: For Diesel, switch hoses marked A and B (See Page 3.6)

SECTION FOUR

DECALS

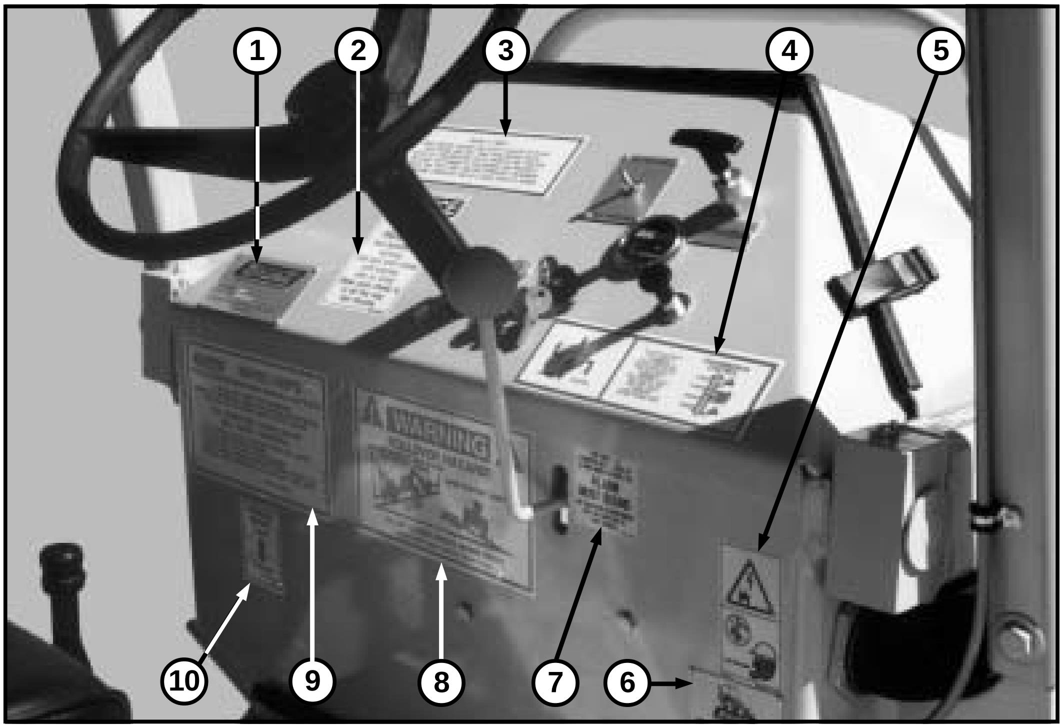
Decal Location - Right Side from Operators Position

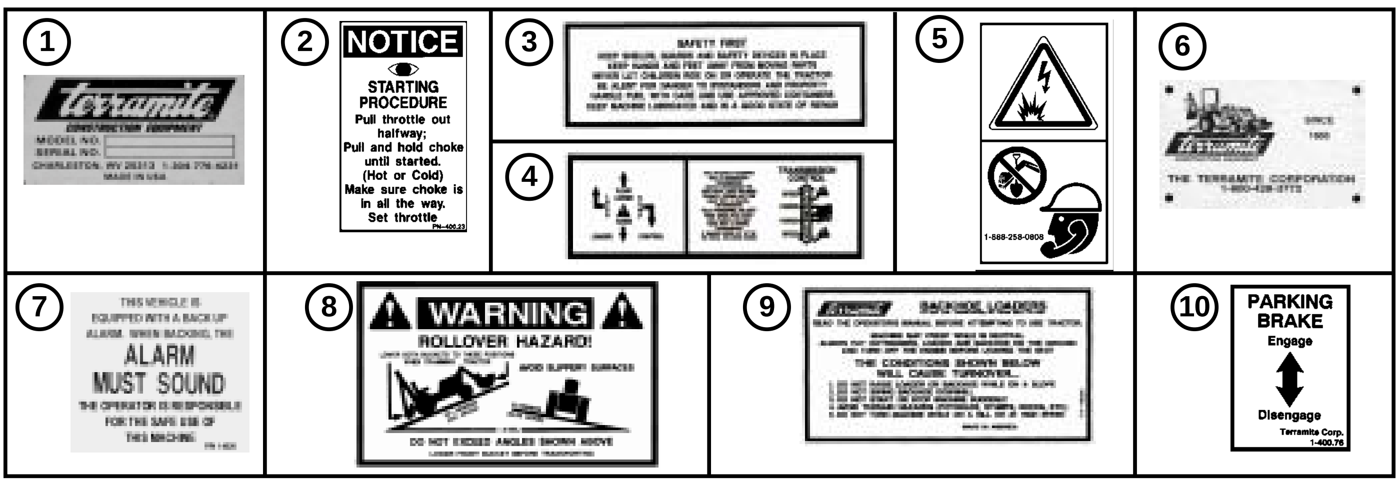




ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14226	Decal, Digging Depth 8'4"	2
2	14571	Decal, T5D	4
3	14004	Decal, Stand Clear	4
4	14322	Decal, Plate ROPS T5&T6 Series	1
5	14001	Decal, Large Terramite	2
6	14099	Decal, American Flag	2
7	14070	Decal, West Virginia	2
8	14055	Decal, Small Terramite	2
9	14054	Decal, Danger, Crush Hazard	2

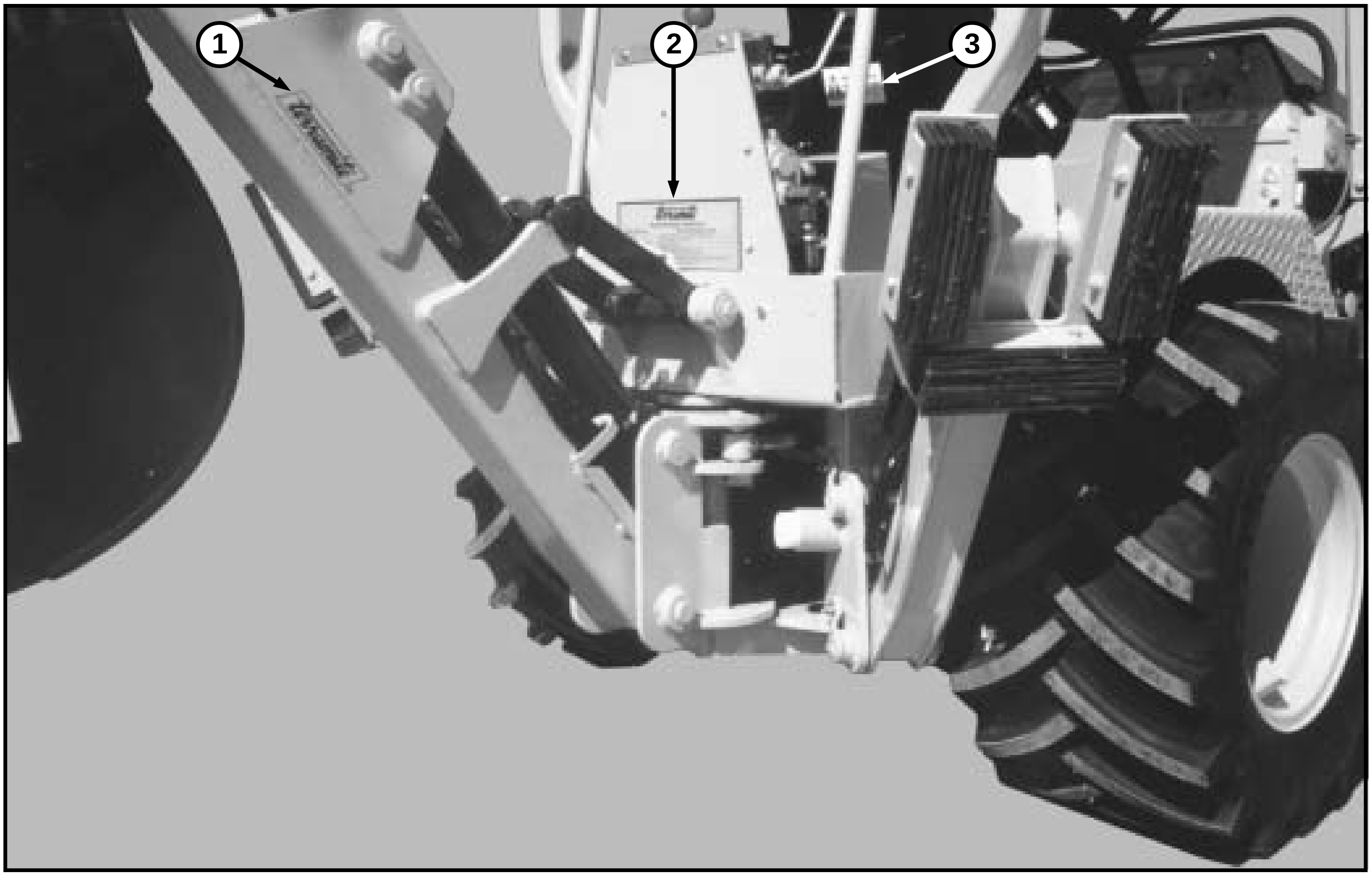
Decal Location - Dash





ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14012	Plate, Model Number and Serial Number	1
2	14023	Decal, Notice, Starting Procedure	1
3	14201	Decal, Safety First	1
4	14110	Decal, Transmission Control	1
5	14053	Decal, Warning Call Before You Dig	1
6	14057	Plate, Since 1965	1
7	14026	Decal, Back Up Alarm	1
8	14202	Decal, Warning, Rollover Hazard	1
9	14203	Decal, Read Operators Manual	1
10	14076	Decal, Parking Brake	1

Decal Location - Rear of Opertors Position



1 terramite®

2 terramite
MAINTENANCE SCHEDULE

TIME PERIOD	MAINTENANCE ITEM
4 HOURS	CHECK ENGINE OIL LEVEL, GREASE LUBE POINTS
8 HOURS	CHECK HYDRAULIC OIL LEVEL
25 HOURS	CHANGE ENGINE OIL
WEEKLY	CHECK AIR FILTER, AND BATTERY LEVEL
FIRST 50 HOURS	CHANGE HYDRAULIC FLUID AND FILTER
200 HOURS	REMOVE CARBON FROM CYLINDER HEAD, CLEAN SPARK PLUGS
300 HOURS	CHANGE HYDRAULIC OIL AND FILTER

3 READ OWNER'S MANUAL BEFORE OPERATING

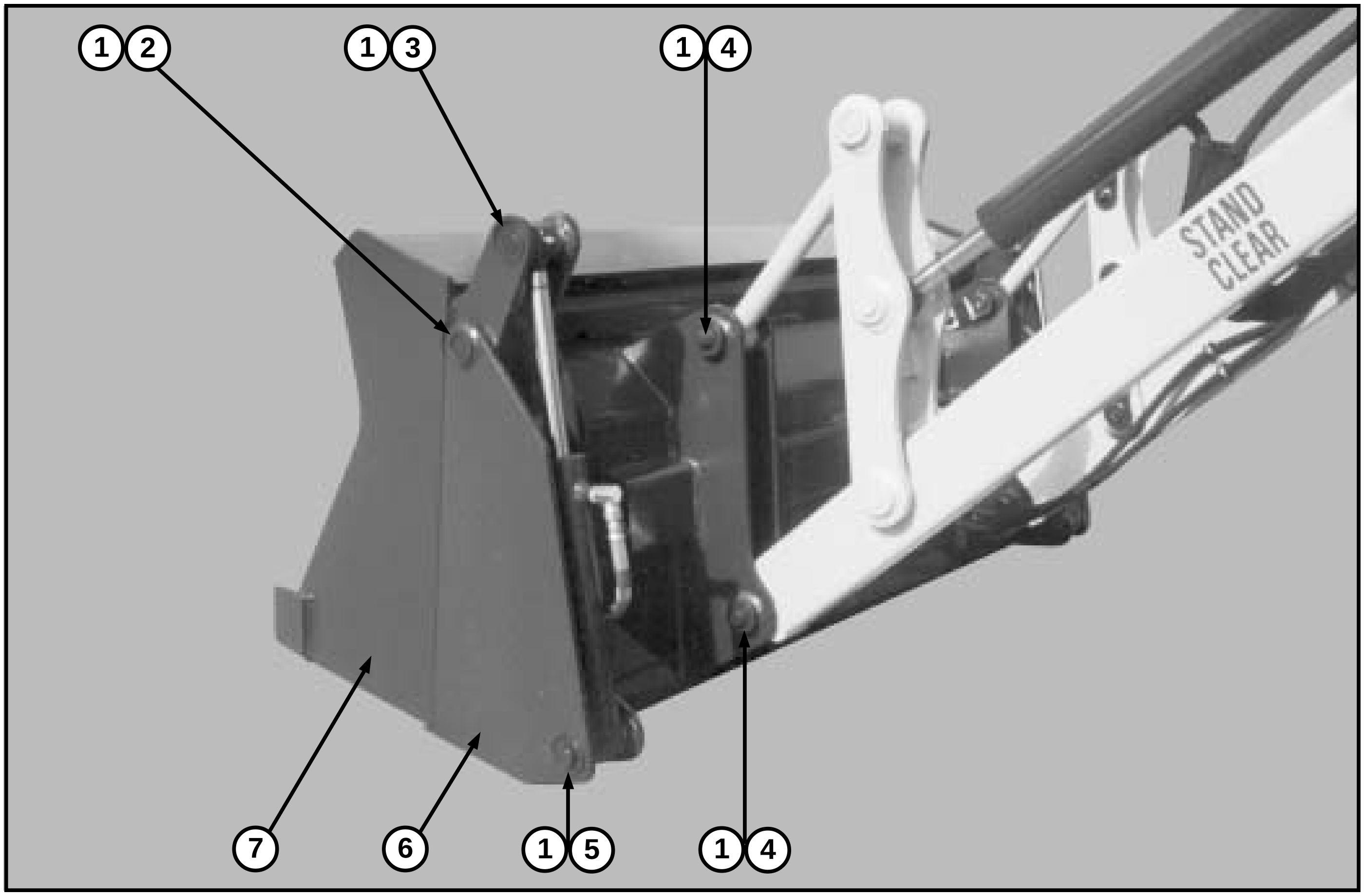
ITEM	PART NUMBER	DESCRIPTION		QTY.
1	14055	Decal, Small Terramite		2
2	14005	Decal, Maintenance	Gas Only	1
	14510		Diesel Only NOT SHOWN	
3	14046	Decal, Read Owners Manual		1

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CONSTRUCTION EQUIPMENT

SECTION FIVE

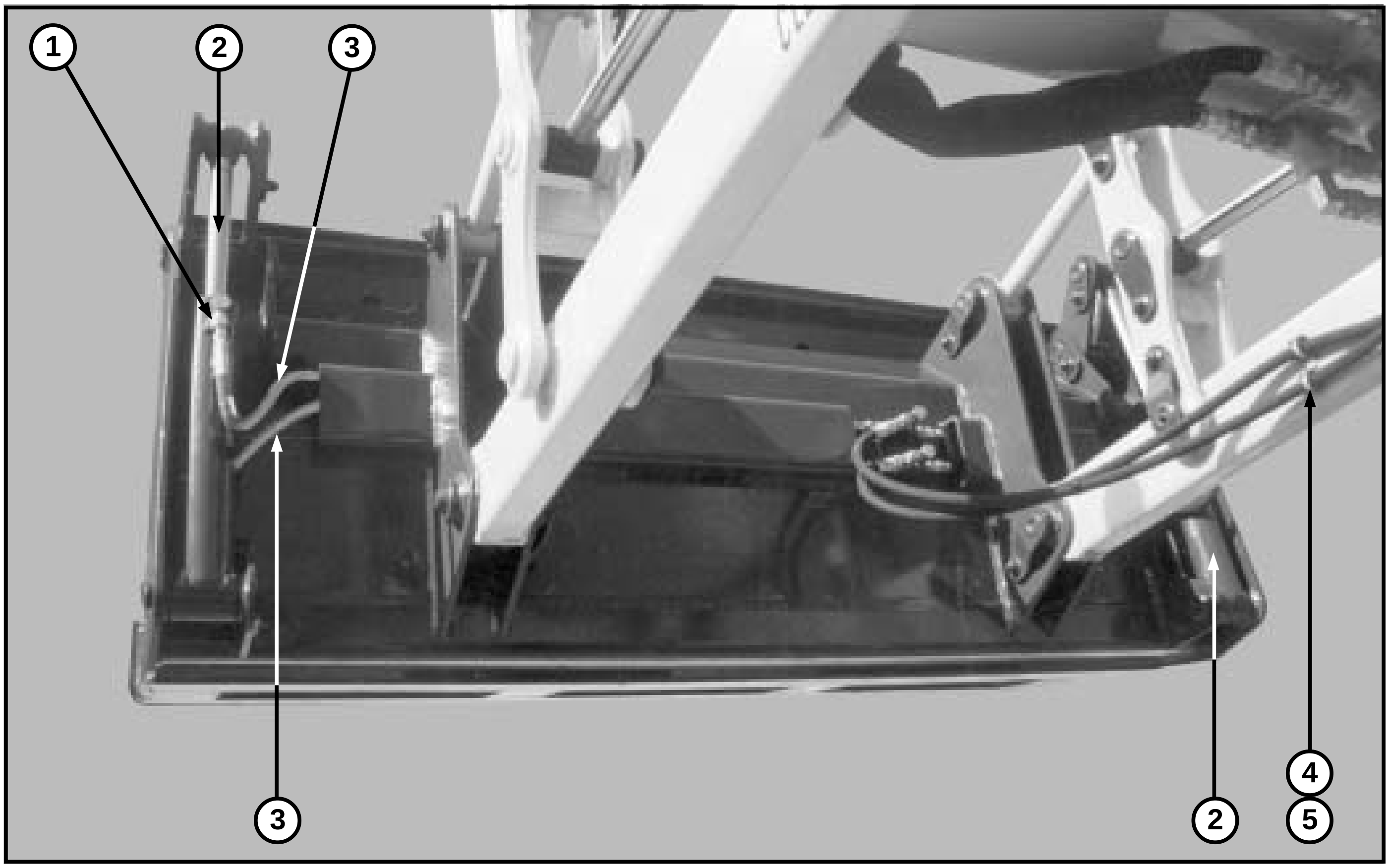
OPTIONS

Clam Shell 4 in 1 Bucket (Factory Installed Option)



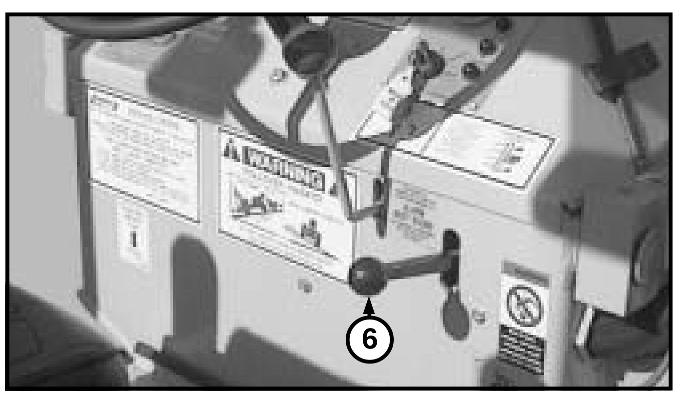
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	20082	Nut, $^3/_8$" - 16 NC Flange	10
2	17138	Pin/w - Clam Bucket Pivot	2
3	17136	Pin/w - Clam Cylinder (Rod End)	2
4	13200	Pin/w - 1" x 3$^3/_4$"	4
5	17137	Pin/w - Clam Cylinder (Barrel End)	2
6	19394	Blade/w - 4 in 1 Clam	1
7	19401	Clam/w - 4 in 1	1

Clam Shell 4 in 1 Bucket (Factory Installed Option)

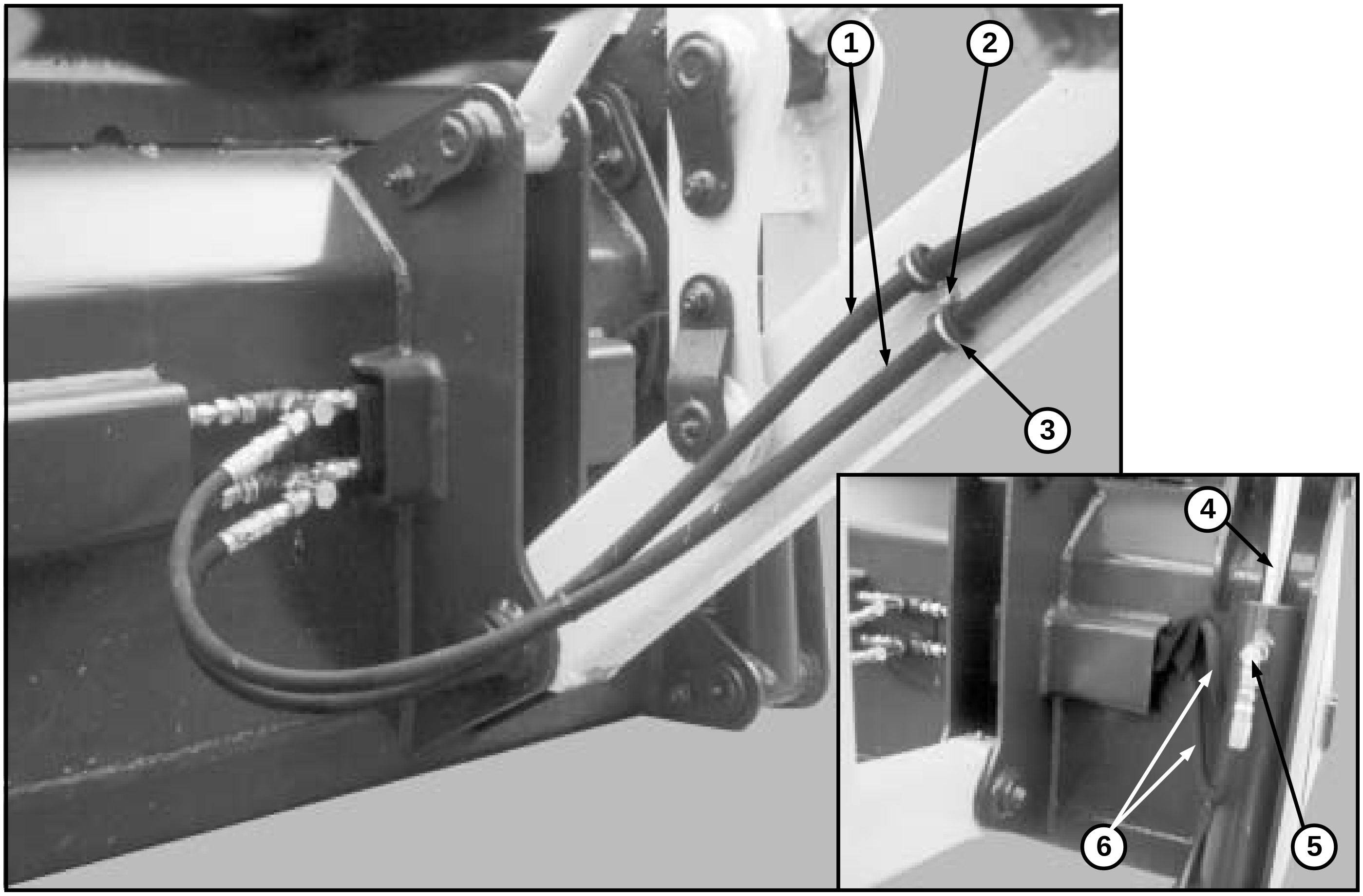


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	22174	Fitting - 1/4" Str. Male to 1/4" Female Swivel 90°	2
2	81126	Cylinder/A - Clam Bucket	2
3	80152	Hose/A - 1/4" Male Pipe Ends - 40" Long	2
4	70011	Clamp - Hose	2
5	22025	Bolt - 1/4" - 28 NC x 3/4" Long	1
6	21403	Handle - Clam , Black (Used with Clam Shell Bucket Only)	1

View of Dash for Clam Shell 4 in 1 Bucket
(Factory Installed Option)

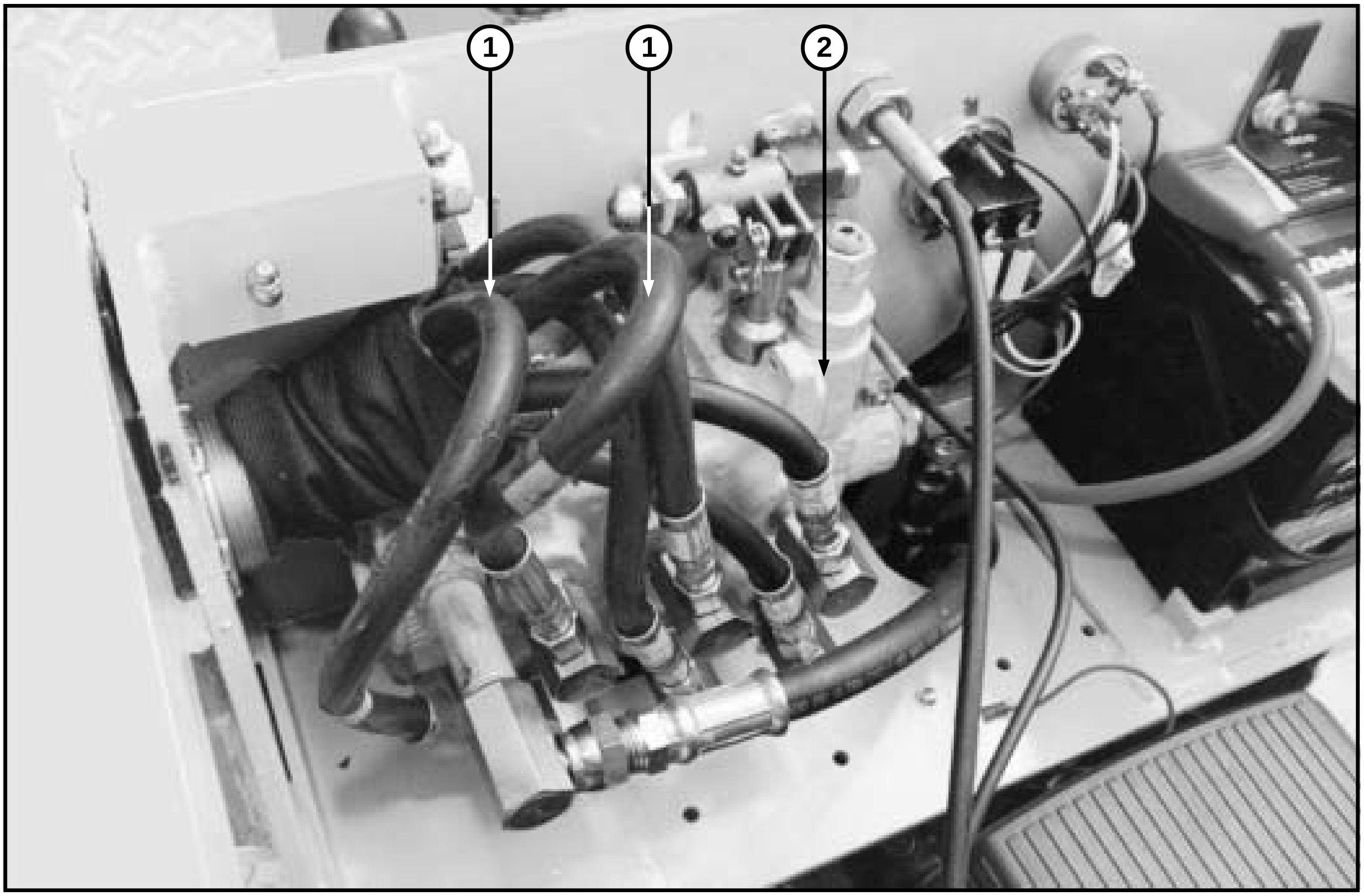


Clam Shell 4 in 1 Bucket (Factory Installed Option)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80119	Hose/A - 1/4" Male Pipe Ends - 109" Long	2
2	22025	Bolt - 1/4" - 28NC x 3/4" Long	1
3	70011	Clamp - Hose	2
4	81126	Cylinder/A - Clam Bucket	2
5	22174	Fitting - 1/4" Straight Male to 1/4" Female Swivel 90°	2
6	80153	Hose/A - 1/4" Male Pipe Ends - 23" Long	2

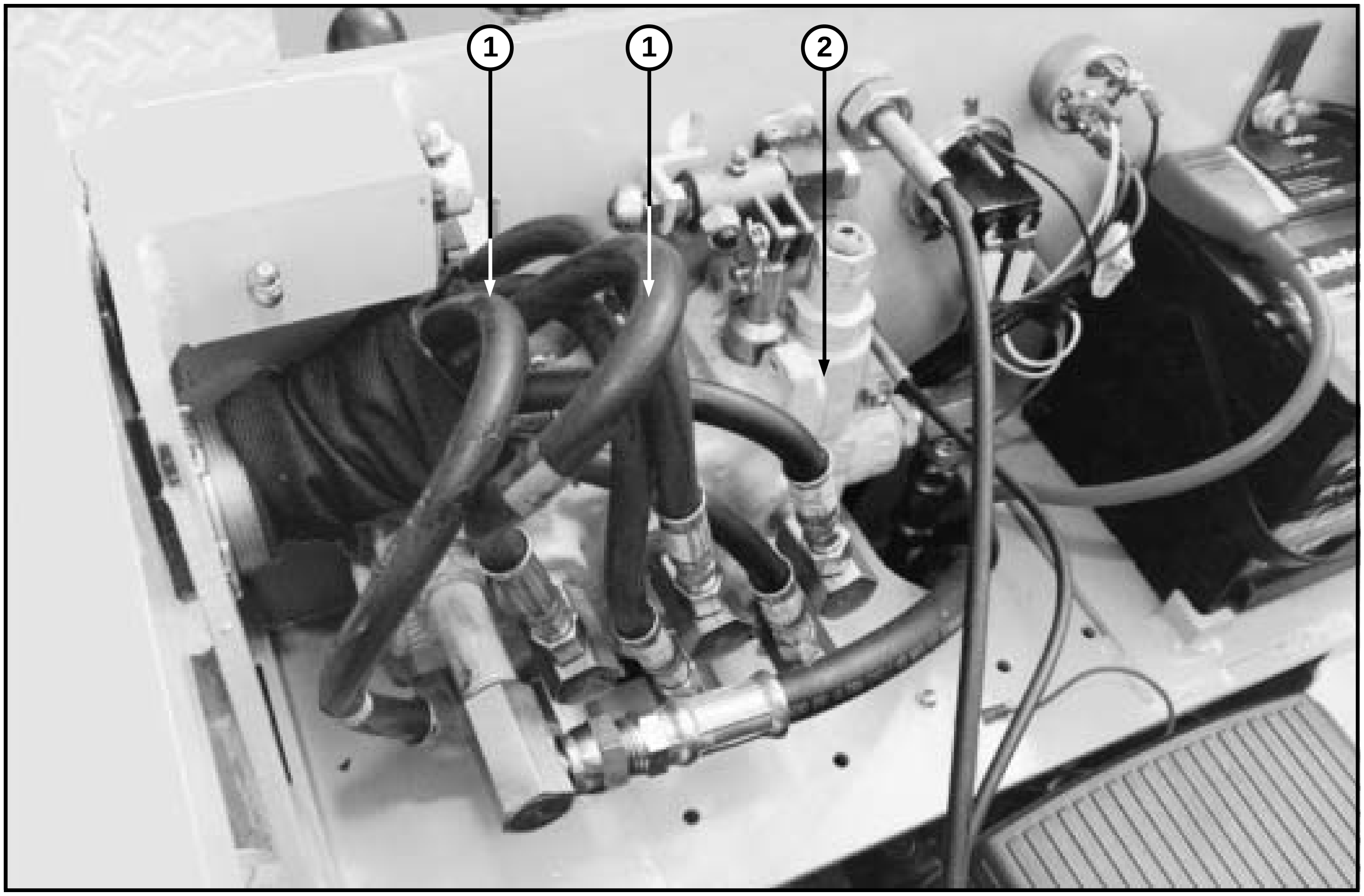
Clam Shell 4 in 1 Bucket (Factory Installed Option)



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	80119	80119	Hose, 1/4" Male Pipe Ends 109" Lg.	2
2	20146	1-46	Valve, Loader, 3 Spool (Used with Clam Shell Bucket Only)	1
NOT SHOWN	22784	8MA-4UFS	Fitting, 1/2"M 90° x 1/4"M Swivel	2

View Under the Dash for Clam Shell 4 in 1 Bucket

(Only as Factory Installed Option)



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	80119	80119	Hose, 1/4" Male Pipe Ends 109" Lg.	2
2	20146	1-46	Valve, Loader, 3 Spool (Used with Clam Shell Bucket Only)	1
NOT SHOWN	22784	8MA-4UFS	Fitting, 1/2"M 90° x 1/4"M Swivel	2

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CONSTRUCTION EQUIPMENT

SECTION SIX

TRANSLATIONS

Translation Chart

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
adapter	adaptateur	Zwischenstück	adaptador
arm	bras	Arm	brazo
axle assembly	essieu ensemble	Achse vollst	eje conjunto
axle shaft	arbre d'essieu	Achsenwelle	barra eje
bearing	palier	Lager	cojinete
body	carrosserie	Karosserie	carrocería
body assembly	ens carrosserie	Karosserie vollst	conj carrocería
bolt	boulon	Bolzen	bulón
boom	flèche	Hubarm	aguilón
boot	capuchon	Kappe	capuchón
bracket	support	Winkel	grampa
brake head assembly	étrier frein ens	Bremskopf vollst	cabeza freno conj
brake lever assembly	ens levier trein	Bremsebel vollst	conj planca freno
brake shoe	patin frein	Bremsschuh	zapata freno
breather	reniflard	Entlüse	carcasa
bucket	godet	Schaufel	cucharón
bushing	chemise	Buchse	buje
button	bouton	Knopf	botón
cable	câble	Kabel, Seil	Cable
cam	came	Nocke	leva
cap	chapeau	Kappe	tapa
carburetor	carburateur (mélangeur)	Vergaser	carburador
case	carter	Gehäuse	caja
chain	chaînes	Kette	cadena
Channel	canal, moulure	U-Träger, Profil	perfil
choke	enrichisseur	Starterklappe	ahogador
circuit breaker	disjoncteur	Unterbrecher	disyuntor
circuit	circuit	Stromkreis	circuito
clamp	attche, collier	Klammer, Einspannbacke	abrazadera
cleaner	épurateur	Luftreiniger	filtro
clevis	chape	Gabelkopf	horquilla
clip	agrafa	Klemme, Bügel	fbroche
collar	collier	Bundring, Flansch	collar
column	montant, colonne	Säule	columna de dirección
cone	cône, bague intériéure	Konus, Kegel	cónico
connecting	de liaison	verbinden	conectar
connection	connexion	Verbindungsstück,	conexión
connector	raccord	Anschluss, Stecker	conector
control	commande	Steuerung, Betätigung	control
converter	convertisseur	Drehmomentwandler	convertidor
cotter pin	goupille fendu	Splint	chaveta
counterweight	contrepoids	Gegengewicht	contrapeso
coupler	raccord	Anschlussstück, Schnellwechsler	conector, enganche
coupling	accouplement	Verbindungsstück	acoplamiento
cover	couvercle	Deckel	cubierta, tapa
crankcase	carter moteur	Kurbelgehäuse	cárter
crankshaft	vilebrequin	Kurbelwelle	cigüeñal
crosshead	traverse	Kreuzkoph	cruceta
cup	coupelle	Aussenring, Schale	taza

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
cushion	coussin	Dämpfungselement, Sitzpolster, Vollgummi	amortiguador
cylinder	cylindre	Zylinder	cilindro
cylinder block	bloc-cylindres	Motorblock, Zylinder-block	bloque de motor
decal	décalque, décalcomanie	Abziebild, Beschriftung	calcomania
detachable	amovible	abnehmbar, geteilt	separable
differential	différentiel	Differential	diferencial
diode	diode	Diode	diodo
dipstick	jauge baïonnette	Messstab	varilla medidora
direction switch	inverseur de marche	Richtungsschalter	interruptor de direccion
directional	de sens de marche	richtungsabhängig	sentido de marcha
disc	disque	Scheibe	disco
distributor	allumeur	Verteiler, Zündverteiler	distribuidor
divider	diviseur, répartiteur	Teller, Verteiler	divisor
dowel	goujon	Passstift, Haltestift	espiga
drive axle	essieu moteur	Antriebsachse	eje motriz
drum	tambour	Trommel	tambor
dual	jamelé, double	doppelt, zweifach	doble
elbow	coude	Kniestück, Winkelstück	codo
element	élément	Element, Einsatz	elemento
enclosure	carter, carénage	Umrandung, Gehäuse	compartimiento
end	terminal, extrémité	Ende	extremo
engine	moteur	Motor	motor
exhaust	échappement	Auspuff	escape
extension	prolongement, rollonge	Verläagerung	extensión
exhaust valve	souparpe d'échappement	Auspuff-, Auslassventil	válvula de escape
fan	ventilateur	Lüfter	ventilador
felt	feutre	Filz	anillo de retén
fender	aile, pare-boue	Schutzblech, Kofflügel	guardabarros
film	film, autocollant	Aufkleber	pelicula
filter	filtre	Filter	filtro
fitting	graisseur, raccord	Nippel, Schraubverbindung	acoplamiento
flap	rabat, bavette	Felgenrand, Klappe	pestaña
flasher	clignotant	Blinkgeber	contacto intermitente
flash lamp	ampoule de clignotant	Blinkleuchte	bombilla intermitente
float	flotteur	gleiten, schwimmen	flotador
floor	sol, plancher	Boden	piso
flow	débit, courant, flux	Strömung, Durchfluss	flujo
flywheel	volant (moteur)	Schwungscheibe	volante
flow protector	protecteur de débit	Durchfluss-Schutzvorrichtung	protector de flujo
foot	pied	Fuss	pie
fork	fourche	Gabel	horquilla
forward	en avant	vorwärts	adelante, hacia adelante
frame	châssis	Rahmen	bastidor
front	avant	vorne, Front	frente, parte delantera
fuel	carburant	Kraftstoff	combustible
FFTL	triple levée	Dreifach-Vollfreihub	alto despejo libre
fuse	fusible	Sicherung	fusible
gasket	joint	Dichtung	junta

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
guage	jauge	Anzeiger	medidor, indicador, calibrador
gear	pignon, engrenage	Zahnrad, Gang	engranaje
glow plug	bougie de préchauffage	Glühkerze	bujía incandescente
grommet	virole	Tülle, Dichtungsring	arandela aislante
group	ensemble	Gruppe, Satz	grupo
guard	protecteur	Schutz, Abdeckung	protector
guide	guide	Führung	guía
hand brake	frein à main	Handbremse	freno de emergencia
handle	poignée	Griff, Handgriff	asa
harness	faisceau	Kabelbaum, Verdrahtung	mazo de cables
head	téte	Kopf	culata
head lamp	phare AV	Scheinwerfer	luz delantera
height	hauteur	Höhe	altura
hinge	charnière	Gelenk, Scharnier	bisagra
hold down	tendeur	Aufspannvorrichtung	sujetador
holder	support	Halter	soporte
hood	capot	Motorhaube	capó
hook	crochet	Zughaken	gancho
horn	avertisseur	Hupe, Signalhorn	bocina
hose	durite, flexible	Schlauch	manguera
housing	boîtier, carter	Gehäuse	caja
hub	moyeu	Nabe, Radnabe	maza
hydraulic	hydraulique	Hydraulik	hidráulico
ignition	allumage	Zündung	encendido
indicator	indicateur	Anzeigevorrichtung	indicador
injection	injection	Einspritzung	inyección
injector	injecteur	Einspritzventil	inyector
inner	intérieur	innen	interior
insert	pièce rapportée	Einsatz	inserto
instrument	instrument	Instrument	instrumento
insulation	isolation	Isolierung	aislante
insulator	isolateur	Isolator, Nichtleiter	aislador
intake valve	soupape d'admission	Ansaugventil	válvula de admisión, válvula de aapiración
interface	surface de réparation, interface	Übertragungseinheit	entrecara, zona Interfacial
jacket	chemise, jupe	Mantel, Wärmeisolierung	camisa, chaqueta
intermediate	intermédiaire, moyen	indirekt	intermedio, medianero
joint	joint	Gelenk, Verbindung	junta, unión, juntaura
keeper	détente	Gegenmutter, Halter	tirante, fijader, retentór
key	clé, clavette	Schlüssel, Keil	llave
lever	levier	Hebel	palanca
leveler	niveleur, correcteur	Planierer	nivelador
light	lumière	Leuchte	luz
line	canalisation	Leitung	tuberia
liner	chemise, garniture	Laufbuchse	camisa
lining	revêtement, garniture (frein)	Auskleidung, Belag	revestimiento, forro
link	baillette, maillon	Glied, Gelenkstück	eslabón
locknut	contre-écrou	Kontermutter, Sicherungsmutter	tuerca de traba

Translation Chart (Continued

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
lockwasher	rondelle d'arrêt	Federring	arandela de seguridad
magnet	aimant	Magnet	imán
manifold	collecteur	Krümmer	múltiple
master cylinder	maître-cylindre	Hauptzylinder	cilindro maestro
maximum	maximum	maximal	máximo
meter	instrument, mètre	Messgerät	medidor, dosificador
modulating	de modulation	Modulation	modulador
motor	moteur	Motor, elektr.	motor
mount	support	anbauen, montieren	montar
mounting	montage	Befestigung, Anbausatz	montaje
muffler	silencieux d'échappement	Schaildämpfer	silenciador
nipple	graisseur	Schmiernippel	boquilla
nut	écrou	Mutter	tuerca
oil	huile	Öl	aceite
oil level	niveau d'huile	Ölstand	nivel del aceite
outer	extérieur	aussen	exterior
oil filter	filtre à huile	Ölfilter	filtro de aceite
O-ring	joint torique	O-Ring	sello anular
oversize	surdimensionné, majoré	Übermass, Übergrösse	sobremedida
packing	gerniture d'étanchéité	Abdichtung	empaquetadura
pad	tampon, coussin	Polster, Unterlagsblock	almohadilla
pan	carter, cuvette	Ölwanne	colector del cárter
panel	tableau	Verkleidungsblech, Instrumentenbrett	panel, tablero de instrumentos
pedal	pédale	Pedal	pedal
pin	goupille, axe	Bolzen, Stift	pasador
pinion	pignon	Ritzel	piñón
piston	piston	Kolben	pistón
pivot	pivot	Anlenk-, Drehpunkt, Aufhängung	pivote
plate	plaque, plateau	Platte, Blech	placa, plancha
plug	bouchon	Schraubstopfen	tapón, bujia
plunger	plongeur	Tauch-, Ventilkolben	émbolo
polished	poli	poliert	pulido
precleaner	préfiltre	Vorreiniger	antefiltro
primary	primarire	Haupt-, Vor-, primär	primario
priority	priorité, séquence	Sicherheits-, Vorrang	prioridad
protector	protecteur	Schutzvorrichtung	protector
pulley	pulie	Riemenscheibe	polea
pump	pompe	Pumpe	bomba
push rod	poussoir	Schubstange	varilla de empuje
race	chemin de roulement, cuvette	Lager-, Laufring	anillo de cojinete
radiator	radiateur	Kühlernetz	radiador
rail	rail (glissiére)	Schiene	riel, mástil
rear	arrière, AR	rückwärts, hinten	posterior, trasero
rectifier	redresseur	Gleichrichter	rectificador
regulator	régulateur	Regler, Reguliervorrichtung	regulador
relay	relais	Relais	relé
relief valve	soupape de décharge	Überdruckventil	válvula de alivio

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
repair	réparation	Reparatur	reparación
required (Reqd.)	requis	erforderlich	requerido
reservoir	réservoir	Tank	depósito, tanque
retainer	arrètoir	Halterung	retén
reverse	marche AR	Rückwärsgang	marcha atrás, reverso
right hand (RH)	côté droit, à droit	rechts	lado derecho (L.D.)
ring	anneau, joint	Ring	anillo, aro, argolla
rivet	rivet	Niete	remache
rocker arm	culbuteur	Kipphebel	balancin
rod	bielle	Stange, Pleuelstange	varilla
roller	galet	Laufrolle	rodillo
rotor	rotor	Rotor, Laufrad	rotador, rotor, rodete
seal	joint	Dichtring	sello
seal-o-ring	joint torique	O-Ring-Dichtung	anillo, anillo de estancamiento
sealant	produit d'étanchéité	Dichtungsmittel	sellante, sellador
seal-u-cup	joint en demi-lune	U-Profil-Dichttungsring	copa en "U"
seat	siège	Sitz	asiento
secondary	secondaire	Anbau-, Hilfs-, Sekundär	secundario, auxiliar
sender	emetteur, sonde	Geber (Kraftstoffstand)	sensor
sending unit	émetteur	Messwertgeber	unidad sensora
separator	séparateur	Separator, Abscheider	separador
setscrew	vis de fixation	Gewindestift	tornillo de traba, tornillo prisionero
shaft	arbre, axe	Welle	eje, mango largo, rastágo
shield	bouclier, écran de protection	Abdeckung, Schild	protector
shim	cale de réglage	Beilagscheibe	calce
short block	bloc-moteur nu	Teil-, Skelettmotor	bloque de motor sin accesoriso, bloque parcial
shroud	panneau, plaque	Abdeckplatte	cubierta, refuerzo de ventilador
sideshift	déport latéral	Seitenschubvorrichtung	desplazador lateral
sleeve	manchon, chemise	Büchse, Hülse	manguito
snap	jonc d'arrêt	Sprengring	anillo de presión, cierre de resorte
socket	douille, chape	Fassung	enchufe
solenoid	solénoïde	Magnetspule	solendoide
spacer	entretoise	Distanzstück	espaciador
spark plug	bougie d'allumage	Zündkerze	bujía
spider	croisilon	Gelenkkreuz	cruceta
spindle	pivot, fusée, broche	Spindel, Achszapfen	punta de eje
spool	tiroir	Ventilstössel	carrete
springs	ressort	Feder	resortes
sprocket	barbotin	Antriebsrad	rueda dentada
standard (Std.)	normal	Standard	estándar
starter	démarreur	Anlasser	arranque
stationary (Stat.)	stationnaire	Aussenmast, stationär	estacionario, inmóvil
stator	stator	Ständer, Stator	estator
steering	directon	Lenkung	directción

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
stem	tige	Schaft	vóstago
strainer	filtre, crépine	Sieb	filtro
strap	sangle	Riemen, Gurt	banda, correa
strut	étai, tirant	Strebe	tirante de dirección
stud	goujon, tenon	Stehbolzen	espárrago
support	support	Auflager, Abstützung	soporte
switch	interrupteur	Schalter	interruptor
tag	étiquette	Anhänger	etiqueta
tapered	conique	konisch, kegelförmig, verjüngt	perfil cónico, aguzado
tappet	poussoir	Anschlag, Stössel	levantaválvulas
tee	té	T-Stück	conexión "T"
terminal	borne	Anschlussklemme	terminal
thermistor	thermistor	Thermistor, Temperatur-fühler	termistor
thermostat	thermostat	Thermostat	termostato
tightner	tendeur	Spanner	tensor, adjustador
tilt cylinder	vérin d'inclinaison	Neigezylinder	cilindro de inclinación
tire	pneumatique	Reifen	neumático
transfer	déclacomanie, autocollant	Abziehbild	transferencia
transmission	transmission, boîte de vi-tesses	Getriebe	transmisión
tread-step	marchepied	Triffstufe	estribo antirresbalante
tube	tuyau, tube, gicleur	Rohr, Schlauch	tubo
tubing	canalisations	Rohr, Schlauchleitung	tuberias, tubos
undersize	sous-dimensionne, minore	Untermass	bajomedida
union	raccord	Anschiussstück, Verbinaung	unión
universal joint	cardan	Kreuzgelenk	junta universal
upright	montant	senkrecht, Hubgerüst	montante vertical
valve	soupape, clapet	Ventil	válvula
valve mechanism	culbuterie	Ventilsteuerung	mecanismo de válvulas
vacuum	vide, dépression	Vakuum, Unterdruck	vacio, vacuómetro
washer	rondelle	Unterlegscheibe	aradela
water	eau	Wasser	agua
water pump	pompe à eau	Wasserpumpe	bomba de agua
wear strip	bande d'usure	Verschleissstreifen	plancha de desgaste
wheel	roue	Rad	rueda
wheel cylinder	cylindre de roue	Radbremszylinder	cilindro de rueda
wiper	racleur	Wischer, Abstreifer	limpiaparabrisas
wire	fil	Draht, Leitung	alambre, cable
wire harness	faisceau de fils	Kabelbaum	mazo de cables
wire marker	marquer de fil	Kabelmarkierung	marcador de alambre
worm	vis sans fin	Schnecke	tornillo sin fin
wrap	revêtement, enveloppe	Hülle	envolver, envoltura
yoke	chape	Gabelgelenk, Joch	horquilla

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